

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: December 29, 2004, 00:33:10 ; Search time 210 Seconds  
(without alignments)  
865.802 Million cell updates/sec

Title: US-09-403-882A-2  
Perfect score: 1622  
Sequence: 1 MAEVKLBSSGGGLVQPGGR.....VVLTIISLIILMLWQKKPR 316

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1825181 seqs, 575374646 residues

Total number of hits satisfying chosen parameters: 1825181

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 65000 summaries

Database : UniProt\_02: \*  
1: uniprot\_sprot: \*  
2: uniprot\_trembl: \*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	853.5	52.6	298	2 Q9QYF0	Q9QYF0 synthetic c
2	850	52.4	255	2 Q6KB05	Q6KB05 mus musculus
3	850	52.4	255	2 CAG34081	CAG34081 mus musculus
4	695	42.8	241	2 Q921A6	Q921A6 mus musculus
5	658	40.6	243	2 Q7IQM2	Q7IQM2 mus musculus
6	608.5	37.5	218	2 Q925S1	Q925S1 mus musculus
7	543	33.5	485	2 Q6PDB8	Q6PDB8 mus musculus
8	543	33.5	485	2 AAB58814	AAB58814 mus musculus
9	542	33.4	473	2 Q91Z05	Q91Z05 mus musculus
10	535	33.0	136	1 HV16_MOUSE	P01783 mus musculus
11	507	31.3	107	1 KV6F_MOUSE	P04940 mus musculus
12	506	31.2	107	1 KV6H_MOUSE	P04942 mus musculus
13	502	30.9	107	1 KV6I_MOUSE	P04943 mus musculus
14	500	30.8	107	1 KV6G_MOUSE	P04941 mus musculus
15	498	30.7	112	2 Q8K1F0	Q8K1F0 mus musculus
16	494	30.5	107	1 KV6J_MOUSE	P04944 mus musculus
17	491	30.3	235	2 Q91W12	Q91W12 mus musculus
18	484.5	29.9	487	2 Q99KA4	Q99KA4 mus musculus
19	483	29.8	134	2 Q9VDD0	Q9VDD0 mus musculus
20	480.5	29.6	471	2 AAB24289	AAB24289 homo sapi
21	480	29.6	112	2 Q8K1F2	Q8K1F2 mus musculus
22	473.5	29.2	464	2 Q8MZU6	Q8MZU6 homo sapien
23	473.5	29.2	464	2 CAE45931	CAE45931 homo sapi
24	473	29.2	472	2 Q6N089	Q6N089 homo sapien
25	473	29.2	472	2 CAE45781	CAE45781 homo sapi
26	468.5	28.9	473	2 Q6MZV7	Q6MZV7 homo sapien
27	468.5	28.9	473	2 CAE45920	CAE45920 homo sapi
28	462.5	28.5	113	2 Q9UL90	Q9UL90 homo sapien
29	462	28.5	478	2 Q6P181	Q6P181 homo sapien
30	462	28.5	478	2 AAB41037	AAB41037 homo sapi
31	462	28.5	613	2 Q8WUK1	Q8WUK1 homo sapien

32	461	28.4	112	2 Q8K1F3	Q8K1F3 mus musculus
33	459	28.3	470	2 Q6PJA4	Q6PJA4 homo sapien
34	459	28.3	470	2 AAB18747	AAB18747 homo sapi
35	458	28.2	111	2 AAR10981	AAR10981 mus muscu
36	458	28.2	111	2 AAR10982	AAR10982 mus muscu
37	458	28.2	114	2 Q8K1F1	Q8K1F1 mus musculus
38	457	28.2	108	2 AAR11048	AAR11048 mus muscu
39	454.5	28.0	437	2 Q9RLA4	Q9RLA4 mus musculus
40	454.5	28.0	597	2 Q96BB9	Q96BB9 homo sapien
41	453	27.9	92	2 AAR11066	AAR11066 mus muscu
42	452.5	27.9	119	2 Q920E7	Q920E7 mus musculus
43	451.5	27.8	479	2 AAB06402	AAB06402 homo sapi
44	450.5	27.8	128	2 BAD00406	BAD00406 camelus d
45	450	27.7	606	2 Q6GMV2	Q6GMV2 homo sapien
46	449	27.7	466	2 Q6IN78	Q6IN78 homo sapien
47	447	27.6	110	2 AAR10999	AAR10999 mus muscu
48	447	27.6	121	2 BAD00469	BAD00469 camelus d
49	446.5	27.5	119	2 AAL35865	AAL35865 lama glam
50	446	27.5	107	1 KV6C_MOUSE	P01677 mus musculus
51	446	27.5	124	2 BAD00233	BAD00233 camelus d
52	445.5	27.5	117	2 AAL35877	AAL35877 lama glam
53	445	27.4	118	2 Q9UL91	Q9UL91 homo sapien
54	443	27.3	119	2 BAD00422	BAD00422 camelus d
55	443	27.3	465	2 Q6P6C4	Q6P6C4 homo sapien
56	443	27.3	465	2 AAB62335	AAB62335 homo sapi
57	443	27.3	479	2 Q91WP5	Q91WP5 mus musculus
58	442.5	27.3	126	2 BAD00440	BAD00440 camelus d
59	441	27.2	107	1 KV6B_MOUSE	P01676 mus musculus
60	440.5	27.2	116	2 Q9UL93	Q9UL93 homo sapien
61	440	27.1	107	1 KV6D_MOUSE	P01678 mus musculus
62	439.5	27.1	494	2 Q96K68	Q96K68 homo sapien
63	439.5	27.1	548	2 BAD00196	BAD00196 camelus d
64	439	27.1	119	2 BAD00492	BAD00492 camelus d
65	439	27.1	486	2 Q91Z07	Q91Z07 mus musculus
66	438.5	27.0	123	2 BAD00234	BAD00234 camelus d
67	438.5	27.0	124	2 BAD00534	BAD00534 camelus d
68	438.5	27.0	128	2 BAD00444	BAD00444 camelus d
69	438.5	27.0	131	2 Q811C3	Q811C3 mus musculus
70	438.5	27.0	544	2 Q6PJ95	Q6PJ95 homo sapien
71	438.5	27.0	544	2 AAB19046	AAB19046 homo sapi
72	438	27.0	118	2 AAL35882	AAL35882 lama glam
73	438	27.0	464	2 Q6PIF8	Q6PIF8 mus musculus
74	438	27.0	464	2 AAB31470	AAB31470 mus muscu
75	437.5	27.0	126	2 BAD00510	BAD00510 camelus d
76	437.5	27.0	479	2 Q6MZV6	Q6MZV6 homo sapien
77	437.5	27.0	479	2 CAE45921	CAE45921 homo sapi
78	437	26.9	106	2 Q9U410	Q9U410 schistosoma
79	437	26.9	111	2 AAR10994	AAR10994 mus muscu
80	437	26.9	493	2 Q6GMX2	Q6GMX2 homo sapien
81	436	26.9	107	1 KV6A_MOUSE	P01675 mus musculus
82	436	26.9	111	2 AAR11009	AAR11009 mus muscu
83	434	26.8	121	2 BAD00463	BAD00463 camelus d
84	433.5	26.7	147	2 Q9Y509	Q9Y509 homo sapien
85	433	26.7	108	1 KV6K_MOUSE	P04945 mus musculus
86	432.5	26.7	117	2 AAL35875	AAL35875 lama glam
87	432.5	26.7	119	2 AAL35866	AAL35866 lama glam
88	432.5	26.7	475	2 Q6MZQ6	Q6MZQ6 homo sapien
89	432.5	26.7	475	2 Q6GMW7	Q6GMW7 homo sapien
90	432.5	26.7	475	2 CAE45972	CAE45972 homo sapi
91	431.5	26.6	124	2 BAD00513	BAD00513 camelus d
92	431	26.6	123	2 BAD00520	BAD00520 camelus d
93	431	26.6	129	2 BAD00498	BAD00498 camelus d
94	430.5	26.5	124	2 BAD00447	BAD00447 camelus d
95	430.5	26.5	124	2 BAD00500	BAD00500 camelus d
96	430.5	26.5	126	2 BAD00420	BAD00420 camelus d
97	430	26.5	95	2 AAR11062	AAR11062 mus muscu
98	430	26.5	120	2 BAD00231	BAD00231 camelus d
99	430	26.5	125	2 BAD00491	BAD00491 camelus d
100	429	26.4	487	2 Q80Z17	Q80Z17 mus musculus
101	428.5	26.4	124	2 BAD00502	BAD00502 camelus d
102	428	26.4	107	1 KV6E_MOUSE	P01679 mus musculus
103	428	26.4	121	2 BAD00404	BAD00404 camelus d
104	428	26.4	126	2 BAD00225	BAD00225 camelus d

105	428	26.4	235	2	Q7TMK0	Q7tmk0 mus musculu	178	413	25.5	127	2	BAD00445	Bad00445 camelus d
106	428	26.4	573	2	Q8WU38	Q8wu38 homo sapien	179	412.5	25.4	120	2	BAD00507	Bad00507 camelus d
107	427	26.3	106	2	AAR11006	Aar11006 mus muscu	180	412.5	25.4	126	2	BAD00515	Bad00515 camelus d
108	427	26.3	119	2	BAD00412	Bad00412 camelus d	181	412	25.4	117	1	HV55_MOUSE	P18526 mus musculu
109	427	26.3	121	2	BAD00453	Bad00453 camelus d	182	412	25.4	117	2	BAD00416	Bad00416 camelus d
110	427	26.3	123	2	BAD00405	Bad00405 camelus d	183	412	25.4	123	2	BAD00462	Bad00462 camelus d
111	427	26.3	125	2	BAD00474	Bad00474 camelus d	184	412	25.4	123	2	BAD00569	Bad00569 camelus d
112	427	26.3	127	2	BAD00475	Bad00475 camelus d	185	411.5	25.4	120	2	BAD00519	Bad00519 camelus d
113	427	26.3	480	2	Q6N094	Q6n094 homo sapien	186	411.5	25.4	126	2	BAD00449	Bad00449 camelus d
114	427	26.3	480	2	CAE45776	CaE45776 homo sapi	187	410.5	25.3	124	2	BAD00395	Bad00395 camelus d
115	426.5	26.3	120	2	BAD00465	Bad00465 camelus d	188	410.5	25.3	124	2	BAD00458	Bad00458 camelus d
116	426	26.3	466	2	Q6N096	Q6n096 homo sapien	189	410	25.3	112	2	BAD00265	Bad00265 camelus d
117	426	26.3	472	2	CAE45774	CaE45774 homo sapi	190	410	25.3	118	2	AAL35871	Aal35871 lama glam
118	426	26.3	472	2	BAC85232	Bac85232 homo sapi	191	410	25.3	119	2	BAD00471	Bad00471 camelus d
119	425.5	26.2	124	2	BAD00530	Bad00530 camelus d	192	410	25.3	121	2	BAD00541	Bad00541 camelus d
120	425.5	26.2	124	2	BAD00554	Bad00554 camelus d	193	410	25.3	126	1	HV3K_HUMAN	Q8NCL6 homo sapien
121	425	26.2	114	1	HV3J_HUMAN	P01763 homo sapien	194	410	25.3	493	1	Q8NCL6_MOUSE	Q8ncl6 homo sapien
122	425	26.2	123	2	BAD00417	Bad00417 camelus d	195	409	25.2	127	2	BAD00432	Bad00432 camelus d
123	425	26.2	131	2	BAD00494	Bad00494 camelus d	196	408.5	25.2	122	2	BAD00532	Bad00532 camelus d
124	424.5	26.2	126	2	BAD00529	Bad00529 camelus d	197	408.5	25.2	126	2	BAD00464	Bad00464 camelus d
125	424.5	26.2	132	2	BAD00553	Bad00553 camelus d	198	408	25.2	119	2	BAD00552	Bad00552 camelus d
126	424.5	26.2	464	2	BAC85395	Bac85395 homo sapi	199	407.5	25.1	115	1	HV32_MOUSE	P01801 mus musculu
127	424	26.1	131	2	BAD00433	Bad00433 camelus d	200	407.5	25.1	117	2	AAL35869	Aal35869 lama glam
128	424	26.0	480	2	Q91XE1	Q91xe1 mus musculu	201	407.5	25.1	128	2	BAD00428	Bad00428 camelus d
129	423	26.1	119	2	BAD00556	Bad00556 camelus d	202	407.5	25.1	502	2	BAC85355	Bac85355 homo sapi
130	423	26.1	122	1	HV3G_HUMAN	P01768 homo sapien	203	407	25.1	119	1	HV40_MOUSE	P01810 mus musculu
131	422.5	26.0	124	2	BAD00410	Bad00410 camelus d	204	407	25.1	121	2	BAD00452	Bad00452 camelus d
132	422.5	26.0	126	2	BAD00415	Bad00415 camelus d	205	407	25.1	125	2	BAD00490	Bad00490 camelus d
133	422	26.0	118	2	AAL35870	Aal35870 lama glam	206	407	25.1	468	2	BAC85444	Bac85444 homo sapi
134	422	26.0	122	2	Q9UL84	Q9ul84 homo sapien	207	407	25.1	117	2	BAC85385	Bac85385 homo sapi
135	421.5	26.0	121	2	Q9UL71	Q9ul71 homo sapien	208	406.5	25.1	118	2	BAD00511	Bad00511 lama glam
136	421.5	26.0	122	2	BAD00434	Bad00434 camelus d	209	406.5	25.1	120	2	BAD00468	Bad00468 camelus d
137	421	26.0	107	2	AAR11015	Aar11015 mus muscu	210	406.5	25.1	122	2	BAD00540	Bad00540 camelus d
138	421	26.0	121	2	BAD00413	Bad00413 camelus d	211	406	25.1	121	2	BAD00459	Bad00459 camelus d
139	420.5	25.9	117	2	AAL35879	Aal35879 lama glam	212	406	25.0	123	2	BAD00543	Bad00543 camelus d
140	420.5	25.9	122	2	BAD00446	Bad00446 camelus d	213	406	25.0	122	2	BAD00545	Bad00545 camelus d
141	420.5	25.9	122	2	BAD00499	Bad00499 camelus d	214	405.5	25.0	123	2	AAL35862	Aal35862 lama glam
142	420.5	25.9	128	2	BAD00403	Bad00403 camelus d	215	405.5	25.0	517	2	BAC86537	Bac86537 homo sapi
143	420	25.9	121	2	BAD00402	Bad00402 camelus d	216	405.5	25.0	121	2	BAD00486	Bad00486 camelus d
144	420	25.9	125	2	BAD00509	Bad00509 camelus d	217	405	25.0	127	2	BAD00525	Bad00525 camelus d
145	419	25.8	117	2	BAD00537	Bad00537 camelus d	218	405	25.0	127	2	BAD00496	Bad00496 camelus d
146	419	25.8	119	2	BAD00472	Bad00472 camelus d	219	405	25.0	464	2	BAC85373	Bac85373 homo sapi
147	419	25.8	120	2	BAD00223	Bad00223 camelus d	220	405	25.0	470	2	Q7Z5W1	Q7z5w1 homo sapien
148	418.5	25.8	118	2	BAD00425	Bad00425 camelus d	221	405	25.0	113	1	HV30_MOUSE	P01799 mus musculu
149	418.5	25.8	122	2	BAD00549	Bad00549 camelus d	222	404.5	24.9	120	2	BAD00429	Bad00429 camelus d
150	418	25.8	127	1	HV54_MOUSE	P18525 mus musculu	223	404.5	24.9	122	2	BAD00455	Bad00455 camelus d
151	418	25.8	123	2	BAD00497	Bad00497 camelus d	224	404.5	24.9	126	2	BAD00539	Bad00539 camelus d
152	417.5	25.7	116	2	BAD00431	Bad00431 camelus d	225	404.5	24.9	119	2	AAL35881	Aal35881 lama glam
153	417.5	25.7	116	2	BAD00431	Bad00431 camelus d	226	403.5	24.9	122	2	BAD00408	Bad00408 camelus d
154	417	25.7	97	2	AAR11055	Aar11055 mus muscu	227	403.5	24.9	487	2	Q6ZVX0	Q6zvx0 homo sapien
155	417	25.7	119	2	BAD00399	Bad00399 camelus d	228	403.5	24.9	487	2	BAC85740	Bac85740 homo sapi
156	417	25.7	123	2	BAD00435	Bad00435 camelus d	229	403.5	24.9	102	2	AAR11016	Aar11016 mus muscu
157	417	25.7	123	2	BAD00523	Bad00523 camelus d	230	403.5	24.9	118	2	AAL35878	Aal35878 lama glam
158	416.5	25.7	118	2	BAD00521	Bad00521 camelus d	231	403	24.8	119	1	HV38_MOUSE	P01808 mus musculu
159	416.5	25.7	124	2	BAD00563	Bad00563 camelus d	232	403	24.8	121	2	BAD00482	Bad00482 camelus d
160	416	25.6	111	1	AAR11021	Aar11021 mus muscu	233	403	24.8	121	2	BAD00505	Bad00505 camelus d
161	416	25.6	119	1	HV37_MOUSE	P01807 mus musculu	234	403	24.8	123	2	BAD00508	Bad00508 camelus d
162	416	25.6	121	2	BAD00550	Bad00550 camelus d	235	403	24.8	116	1	HV41_MOUSE	P01811 mus musculu
163	416	25.6	125	2	BAD00439	Bad00439 camelus d	236	403	24.8	97	1	HV56_MOUSE	P18527 mus musculu
164	416	25.6	125	2	BAD00448	Bad00448 camelus d	237	402.5	24.8	97	1	Q9L76	Q9l76 mus musculu
165	416	25.6	127	2	BAD00564	Bad00564 camelus d	238	402	24.8	120	2	BAD00528	Bad00528 camelus d
166	416	25.6	129	2	BAD00424	Bad00424 camelus d	239	401.5	24.8	121	2	AAL35861	Aal35861 lama glam
167	416	25.6	499	2	Q8N5K4	Q8n5k4 homo sapien	240	401.5	24.8	122	2	BAD00481	Bad00481 camelus d
168	415.5	25.6	135	2	BAD00232	Bad00232 camelus d	241	401.5	24.8	126	2	BAD00480	Bad00480 camelus d
169	415	25.6	118	2	Q9UL72	Q9ul72 homo sapien	242	401.5	24.8	126	2	BAD00567	Bad00567 camelus d
170	415	25.6	120	2	AAL35864	Aal35864 lama glam	243	401.5	24.8	105	2	AAR10980	Aar10980 mus muscu
171	415	25.6	121	2	BAD00432	Bad00432 camelus d	244	401.5	24.8	118	2	AAL35880	Aal35880 lama glam
172	414.5	25.6	120	2	BAD00488	Bad00488 camelus d	245	401.5	24.8	127	2	BAD00512	Bad00512 camelus d
173	414.5	25.6	121	1	HV3J_HUMAN	P01771 homo sapien	246	401	24.7	123	2	BAD00438	Bad00438 camelus d
174	414.5	25.6	124	2	BAD00392	Bad00392 camelus d	247	401	24.7	113	1	HV27_MOUSE	P01796 mus musculu
175	413.5	25.5	114	2	AAR10983	Aar10983 mus muscu	248	401	24.7				
176	413.5	25.5	118	2	BAD00436	Bad00436 camelus d	249	401	24.7				
177	413.5	25.5	120	2	BAD00493	Bad00493 camelus d	250	400.5	24.7				

251	400.5	24.7	118	2	BAD00526	Bad00526 camelus d	324	386	23.8	129	2	BAD00495	Bad00495 camelus d
252	400.5	24.7	118	2	BAD00568	Bad00568 camelus d	325	385.5	23.8	120	1	BAD00414	Bad00414 camelus d
253	400.5	24.7	120	2	BAD00503	Bad00503 camelus d	326	385	23.7	119	1	HV3M_HUMAN	P01774 homo sapien
254	400	24.7	129	1	KV4A_MOUSE	P01680 mus musculus	327	385	23.7	119	2	BAD00477	Bad00477 camelus d
255	399.5	24.6	114	2	AAR11022	Aar11022 mus muscu	328	385	23.7	121	2	BAD00558	Bad00558 camelus d
256	399.5	24.6	115	1	HV33_MOUSE	P01802 mus musculus	329	385	23.7	122	1	HV3H_HUMAN	P01769 homo sapien
257	399.5	24.6	119	2	AAL35868	Aal35868 lama glam	330	385	23.7	125	2	BAD00457	Bad00457 camelus d
258	399	24.6	116	2	AAL35874	Aal35874 lama glam	331	385	23.7	482	2	Q72351	Q72351 homo sapien
259	398.5	24.6	122	2	BAD00470	Bad00470 camelus d	332	384.5	23.7	121	2	AAL35847	Aal35847 lama glam
260	398.5	24.6	469	2	QBR3V9	QBR3V9 mus musculus	333	384	23.7	103	2	AAR10989	Aar10989 mus muscu
261	398	24.5	121	2	BAD00551	Bad00551 camelus d	334	384	23.7	119	1	HV3P_HUMAN	P01777 homo sapien
262	398	24.5	123	2	BAD00400	Bad00400 camelus d	335	384	23.7	123	2	BAD00393	Bad00393 camelus d
263	397.5	24.5	112	2	AAR11019	Aar11019 mus muscu	336	384	23.7	125	2	BAD00562	Bad00562 camelus d
264	397.5	24.5	117	1	HV29_MOUSE	P01798 mus musculus	337	383.5	23.6	120	2	BAD00454	Bad00454 camelus d
265	397.5	24.5	113	2	AAL35867	Aal35867 lama glam	338	382.5	23.6	120	1	HV3E_HUMAN	P01766 homo sapien
266	397.5	24.5	122	2	BAD00394	Bad00394 camelus d	339	382.5	23.6	128	2	BAD00423	Bad00423 camelus d
267	397.5	24.5	126	2	BAD00557	Bad00557 camelus d	340	381.5	23.5	115	1	HV3D_HUMAN	P01765 homo sapien
268	396.5	24.4	123	1	HV31_MOUSE	P01800 mus musculus	341	381.5	23.5	117	1	HV42_MOUSE	P01812 mus musculus
269	396.5	24.4	124	2	BAD00536	Bad00536 camelus d	342	381.5	23.5	121	2	AAL35863	Aal35863 lama glam
270	396	24.4	98	2	AAR11044	Aar11044 mus muscu	343	381.5	23.5	473	2	Q6P055	Q6P055 homo sapien
271	396	24.4	119	2	BAD00560	Bad00560 camelus d	344	381.5	23.5	473	2	AH65820	Ah65820 homo sapi
272	396	24.4	497	2	BAC86210	Bac86210 homo sapi	345	381	23.5	114	1	HV01_CANFA	P01784 canis famll
273	395.5	24.4	120	2	BAD00516	Bad00516 camelus d	346	380.5	23.5	113	1	HV34_MOUSE	P01803 mus musculus
274	395.5	24.4	124	2	BAD00478	Bad00478 camelus d	347	380.5	23.5	122	2	BAD00456	Bad00456 camelus d
275	395	24.4	112	2	Q9HCC1	Q9hcc1 homo sapien	348	380.5	23.5	122	2	BAD00546	Bad00546 camelus d
276	395	24.4	116	2	BAD00215	Bad00215 camelus d	349	380.5	23.5	126	2	BAD00421	Bad00421 camelus d
277	395	24.4	519	2	Q6N092	Q6n092 homo sapien	350	380	23.4	115	2	BAD00483	Bad00483 camelus d
278	395	24.4	519	2	CAR45778	Car45778 homo sapi	351	379.5	23.4	116	1	HV05_CARAU	P19181 carassius a
279	394.5	24.3	113	1	HV28_MOUSE	P01797 mus musculus	352	379	23.4	117	1	HV58_MOUSE	P19529 mus musculus
280	394.5	24.3	118	1	HV39_MOUSE	P01809 mus musculus	353	378.5	23.3	116	2	BAD00542	Bad00542 camelus d
281	394.5	24.3	120	2	BAD00397	Bad00397 camelus d	354	378.5	23.3	170	2	Q92582	Q92582 mus musculus
282	394.5	24.3	142	1	HV01_RAT	P01805 rattus norv	355	378	23.3	89	2	AAR11072	Aar11072 mus muscu
283	394	24.3	127	2	BAD00467	Bad00467 camelus d	356	378	23.3	105	2	AAR11058	Aar11058 mus muscu
284	393.5	24.3	115	1	HV3F_HUMAN	P01767 homo sapien	357	378	23.3	117	1	HV59_MOUSE	P19530 mus musculus
285	393.5	24.3	118	2	BAD00487	Bad00487 camelus d	358	378	23.3	121	2	BAD00442	Bad00442 camelus d
286	393.5	24.3	119	2	BAD00208	Bad00208 camelus d	359	378	23.3	123	2	BAD00426	Bad00426 camelus d
287	393.5	24.3	120	2	BAD00407	Bad00407 camelus d	360	378	23.3	126	2	AAL35851	Aal35851 lama glam
288	393.5	24.3	479	2	Q7TMK4	Q7tmk4 mus musculus	361	378	23.3	593	2	Q6INM5	Q6inm5 xenopus lae
289	393	24.2	98	1	HV57_MOUSE	P19528 mus musculus	362	378	23.3	593	2	AH72253	Ah72253 xenopus l
290	393	24.2	123	2	BAD00489	Bad00489 camelus d	363	377.5	23.3	119	1	HV3L_HUMAN	P01773 homo sapien
291	393	24.2	126	2	BAD00310	Bad00310 camelus d	364	377	23.2	117	2	BAD00451	Bad00451 camelus d
292	392.5	24.2	118	2	BAD00559	Bad00559 camelus d	365	377	23.2	119	1	HV3N_HUMAN	P01775 homo sapien
293	392.5	24.2	127	2	BAD00335	Bad00335 camelus d	366	377	23.2	123	2	BAD00437	Bad00437 camelus d
294	392	24.2	117	2	BAD00518	Bad00518 camelus d	367	376.5	23.2	122	2	BAD00427	Bad00427 camelus d
295	392	24.2	123	2	BAD00398	Bad00398 camelus d	368	376.5	23.2	122	2	BAD00461	Bad00461 camelus d
296	391.5	24.1	117	1	HV02_CANFA	P01785 canis famll	369	376.5	23.2	130	2	BAD00555	Bad00555 camelus d
297	391.5	24.1	120	2	BAD00460	Bad00460 camelus d	370	376	23.2	95	2	Q9ULB6	Q9ulb6 homo sapien
298	391.5	24.1	126	2	BAD00522	Bad00522 camelus d	371	376	23.2	123	2	BAD00473	Bad00473 camelus d
299	391	24.1	117	1	HV3C_HUMAN	P01764 homo sapien	372	376	23.2	124	2	AAL35854	Aal35854 lama glam
300	391	24.1	121	2	BAD00411	Bad00411 camelus d	373	376	23.2	584	2	Q6INK3	Q6ink3 xenopus lae
301	390.5	24.1	124	2	BAD00524	Bad00524 camelus d	374	376	23.2	584	2	AH72277	Ah72277 xenopus l
302	390.5	24.1	126	2	BAD00566	Bad00566 camelus d	375	375.5	23.2	109	2	AAR10993	Aar10993 mus muscu
303	390.5	24.1	483	2	Q6MZX9	Q6mzx9 homo sapien	376	375.5	23.2	521	2	Q8N4Y9	Q8n4y9 homo sapien
304	390.5	24.1	483	2	CAR45898	Car45898 homo sapi	377	375	23.1	97	2	AAR11028	Aar11028 mus muscu
305	390.5	24.1	484	2	Q8VEAO	Q8vea0 mus musculus	378	375	23.1	103	2	AAR11045	Aar11045 mus muscu
306	390.5	24.1	614	2	Q6DDQ7	Q6ddq7 xenopus lae	379	375	23.1	116	2	BAD00224	Bad00224 camelus d
307	390	24.0	127	2	BAD00504	Bad00504 camelus d	380	375	23.1	124	2	BAD00594	Bad00594 camelus d
308	390	24.0	495	2	BAC85366	Bac85366 homo sapi	381	375	23.1	470	2	BAC85172	Bac85172 homo sapi
309	389.5	24.0	104	2	AAR10986	Aar10986 mus muscu	382	374.5	23.1	124	2	BAD00506	Bad00506 camelus d
310	389.5	24.0	119	1	HV3I_HUMAN	P01770 homo sapien	383	374.5	23.1	481	2	Q6N097	Q6n097 homo sapien
311	389.5	24.0	120	2	BAD00547	Bad00547 camelus d	384	374.5	23.1	481	2	CAR45773	Car45773 homo sapi
312	389	24.0	111	1	HV35_MOUSE	P01804 mus musculus	385	374	23.1	116	2	AAL35872	Aal35872 lama glam
313	389	24.0	466	2	AH64496	Ah64496 homo sapi	386	374	23.1	117	1	HV53_MOUSE	P19524 mus musculus
314	388.5	24.0	116	2	BAD00466	Bad00466 camelus d	387	374	23.1	120	2	BAD00242	Bad00242 camelus d
315	388	23.9	121	2	BAD00485	Bad00485 camelus d	388	374	23.1	125	2	BAD00514	Bad00514 camelus d
316	388	23.9	122	2	BAD00312	Bad00312 camelus d	389	373.5	23.0	114	2	BAD00419	Bad00419 camelus d
317	388	23.9	474	2	BAC85350	Bac85350 homo sapi	390	373	23.0	102	2	AAR11041	Aar11041 mus muscu
318	387.5	23.9	120	2	BAD00430	Bad00430 camelus d	391	372.5	23.0	122	2	BAD00479	Bad00479 camelus d
319	387.5	23.9	120	2	BAD00531	Bad00531 camelus d	392	372.5	23.0	123	2	AAL35858	Aal35858 lama glam
320	387.5	23.9	120	2	BAD00544	Bad00544 camelus d	393	372.5	23.0	125	2	BAD00629	Bad00629 camelus d
321	387.5	23.9	126	2	BAD00538	Bad00538 camelus d	394	372.5	23.0	254	2	BAC86524	Bac86524 homo sapi
322	387	23.9	122	1	HV3A_HUMAN	P01762 homo sapien	395	372.5	23.0	494	2	Q6ZW64	Q6zw64 homo sapien
323	387	23.9	131	2	BAD00450	Bad00450 camelus d	396	372.5	23.0	494	2	BAC85641	Bac85641 homo sapi

397	372	22.9	105	2	AAR11061	Aar11061 mus muscu	470	355.5	21.9	108	1	KVIR_HUMAN	P01610 homo sapien
398	371	22.9	124	2	BAD00238	Bad00238 camelus d	471	354.5	21.9	214	2	Q9RIA5	Q9RIA5 mus musculus
399	370.5	22.8	121	2	BAD00306	Bad00306 camelus d	472	354.5	21.9	585	2	Q6GPX4	Q6GPX4 xenopus lae
400	370.5	22.8	123	1	HV22 MOUSE	P01791 mus musculus	473	354	21.8	118	2	AAL35857	AAL35857 lama glam
401	368.5	22.7	116	2	BAD00548	Bad00548 camelus d	474	354	21.8	120	2	BAD00219	Bad00219 camelus d
402	368	22.7	122	1	HV21 MOUSE	P01790 mus musculus	475	354	21.8	128	2	BAD00331	Bad00331 camelus d
403	368	22.7	125	2	BAD006401	Bad006401 camelus d	476	354	21.8	473	2	Q9DBL4	Q9DBL4 mus musculus
404	367.5	22.7	124	2	BAD00441	Bad00441 camelus d	477	353.5	21.8	107	2	Q9UL70	Q9UL70 homo sapien
405	367.5	22.7	127	2	BAD00222	Bad00222 camelus d	478	353	21.8	108	2	Q96SA9	Q96SA9 homo sapien
406	366.5	22.7	131	2	Q9UL88	Q9ul88 homo sapien	479	353	21.8	126	2	AAL35838	AAL35838 lama glam
407	366.5	22.6	122	2	BAD00501	Bad00501 camelus d	480	353	21.8	126	2	AAL35839	AAL35839 lama glam
408	366.5	22.6	123	1	HV18 MOUSE	P01787 mus musculus	481	353	21.8	128	2	BAD00332	Bad00332 camelus d
409	366.5	22.6	123	1	HV24 MOUSE	P01787 mus musculus	482	352.5	21.7	108	1	KVIR_MOUSE	P03062 homo sapien
410	366.5	22.6	479	2	AAH4667	Aah4667 homo sapi	483	352.5	21.7	111	1	KV3N_HUMAN	P01666 mus musculus
411	366	22.6	120	1	HV30 HUMAN	P01782 homo sapien	484	352.5	21.7	127	2	AAL35855	AAL35855 lama glam
412	366	22.6	121	2	BAD00565	Bad00565 camelus d	485	352.5	21.7	236	2	Q7TMK3	Q7TMK3 mus musculus
413	366	22.6	122	2	BAD00334	Bad00334 camelus d	486	352.5	21.7	482	2	Q8K172	Q8K172 mus musculus
414	365.5	22.5	123	1	HV19 MOUSE	P01788 mus musculus	487	352	21.7	98	2	AAR11053	AAR11053 mus muscu
415	365.5	22.5	127	2	BAD00657	Bad00657 camelus d	488	352	21.7	464	2	Q6PFF95	Q6PFF95 mus musculus
416	365	22.5	105	2	AAR11051	Aar11051 mus muscu	489	352	21.7	464	2	AAH57672	AAH57672 mus muscu
417	365	22.5	117	1	HV30 HUMAN	P01776 homo sapien	490	351.5	21.7	123	2	BAD00387	Bad00387 camelus d
418	365	22.5	120	2	BAD00243	Bad00243 camelus d	491	351.5	21.7	127	2	BAD00250	Bad00250 camelus d
419	365	22.5	124	2	BAD00671	Bad00671 camelus d	492	351.5	21.7	131	2	BAD00599	Bad00599 camelus d
420	365	22.5	126	2	AAL35848	Aal35848 lama glam	493	351.5	21.7	465	2	Q6PJ82	Q6PJ82 mus musculus
421	365	22.5	128	2	BAD00384	Bad00384 camelus d	494	351.5	21.7	465	2	AAH18280	AAH18280 mus muscu
422	365	22.5	474	2	BAC85171	Bac85171 homo sapi	495	351	21.6	118	2	AAL35849	AAL35849 lama glam
423	364.5	22.5	131	1	HV17 MOUSE	P01786 mus musculus	496	351	21.6	598	2	AAO37747	AAO37747 ornithorh
424	364.5	22.5	137	2	BAD00240	Bad00240 camelus d	497	350.5	21.6	108	1	KV1B_HUMAN	P01594 homo sapien
425	364	22.4	499	2	BAC85363	Bac85363 homo sapi	498	350.5	21.6	125	2	BAD00201	Bad00201 camelus d
426	363	22.4	117	2	BAD00396	Bad00396 camelus d	499	350.5	21.6	125	2	BAD00346	Bad00346 camelus d
427	363	22.4	121	2	BAD00409	Bad00409 camelus d	500	350.5	21.6	125	2	BAD00687	Bad00687 camelus d
428	362.5	22.3	119	2	AAL35873	Aal35873 lama glam	501	350.5	21.6	133	2	BAD00623	Bad00623 camelus d
429	362.5	22.3	123	1	HV25 MOUSE	P01794 mus musculus	502	350.5	21.6	144	1	HV26_MOUSE	P01795 mus musculus
430	362.5	22.3	123	2	BAD00248	Bad00248 camelus d	503	350	21.6	122	2	BAD00244	Bad00244 camelus d
431	362.5	22.3	236	2	Q6GMX9	Q6gm9 homo sapien	504	350	21.6	126	2	BAD00207	Bad00207 camelus d
432	362.5	22.3	117	2	BAD00527	Bad00527 camelus d	505	349.5	21.5	104	1	Q9UL87	Q9ul87 homo sapien
433	362	22.3	120	2	BAD00218	Bad00218 camelus d	506	349.5	21.5	116	1	HV3R_HUMAN	P01779 homo sapien
434	362	22.3	124	2	Q9N0W6	Q9n0w6 oryctolagus	507	349.5	21.5	127	2	BAD00209	Bad00209 camelus d
435	362	22.3	124	2	HV23 MOUSE	P01792 mus musculus	508	349	21.5	118	2	BAD00247	Bad00247 camelus d
436	361.5	22.3	112	2	BAD00371	Bad00371 camelus d	509	349	21.5	120	2	BAD00235	Bad00235 camelus d
437	361	22.3	116	1	HV36 MOUSE	P01806 mus musculus	510	348.5	21.5	119	2	BAD00351	Bad00351 camelus d
438	361	22.3	468	2	Q99131	Q99131 mus musculus	511	348.5	21.5	125	2	BAD00200	Bad00200 camelus d
439	361	22.3	124	2	BAD00533	Bad00533 camelus d	512	348.5	21.5	129	1	KV1W_HUMAN	P04431 homo sapien
440	360.5	22.2	124	2	BAD00561	Bad00561 camelus d	513	348.5	21.5	236	2	Q6GMX8	Q6gm8 homo sapien
441	360.5	22.2	124	2	Q6PFIH7	Q6phi7 homo sapien	514	348.5	21.5	236	2	Q7TS98	Q7ts98 mus musculus
442	360.5	22.2	236	2	AAL34141	Aal34141 homo sapi	515	348	21.5	126	2	BAD00627	Bad00627 camelus d
443	360.5	22.2	236	2	Q9N0W4	Q9n0w4 oryctolagus	516	348	21.5	468	2	BAC85175	BAC85175 homo sapi
444	360	22.2	124	2	AAL35846	Aal35846 lama glam	517	347.5	21.4	108	2	Q9UL77	Q9ul77 homo sapien
445	360	22.2	124	2	AAH19337	Aah19337 homo sapi	518	347.5	21.4	123	2	AAL35852	AAL35852 lama glam
446	360	22.2	464	2	KV1P_HUMAN	P01608 homo sapien	519	347.5	21.4	123	2	BAD00582	Bad00582 camelus d
447	359.5	22.2	108	1	KV1V_HUMAN	P04430 homo sapien	520	347	21.4	126	2	BAD00202	Bad00202 camelus d
448	359.5	22.2	108	1	KV1V_HUMAN	P04430 homo sapien	521	346.5	21.4	233	2	Q9IWS9	Q9iws9 mus musculus
449	359.5	22.2	118	2	BAD00535	Bad00535 camelus d	522	346.5	21.4	120	2	Q6GMX0	Q6gm0 homo sapien
450	359.5	22.2	447	2	BAC86226	Bac86226 homo sapi	523	346	21.3	230	2	BAD00220	Bad00220 camelus d
451	359	22.1	94	2	AAR10997	Aar10997 mus muscu	524	346	21.3	120	2	BAD00236	Bad00236 camelus d
452	359	22.1	122	1	HV20 MOUSE	P01789 mus musculus	525	346	21.3	124	2	BAD00388	Bad00388 camelus d
453	359	22.1	495	2	BAC85349	Bac85349 homo sapi	526	346	21.3	128	2	BAD00246	Bad00246 camelus d
454	358.5	22.1	127	2	BAD00619	Bad00619 camelus d	527	346	21.3	128	2	BAD00358	Bad00358 camelus d
455	358.5	22.1	471	2	BAC85388	Bac85388 homo sapi	528	345.5	21.3	123	2	BAD00286	Bad00286 camelus d
456	358	22.1	103	2	AAR11049	Aar11049 mus muscu	529	345.5	21.3	129	2	BAD00319	Bad00319 camelus d
457	358	22.1	497	2	BAC86513	Bac86513 homo sapi	530	345	21.3	120	2	BAD00256	Bad00256 camelus d
458	357.5	22.0	234	2	Q8R062	Q8r062 mus musculus	531	345	21.3	126	2	BAD00245	Bad00245 camelus d
459	357.5	22.0	236	2	Q723Y4	Q723y4 homo sapien	532	345	21.3	128	2	BAD00315	Bad00315 camelus d
460	357	22.0	94	2	AAR11038	Aar11038 mus muscu	533	344.5	21.2	108	1	KV5J_MOUSE	P01643 mus musculus
461	357	22.0	96	2	AAR11010	Aar11010 mus muscu	534	344.5	21.2	123	2	Bad00229	Bad00229 camelus d
462	357	22.0	100	2	AAR11042	Aar11042 mus muscu	535	344.5	21.2	129	2	BAD00668	Bad00668 camelus d
463	356.5	22.0	101	2	Q9UL78	Q9ul78 mus musculus	536	344.5	21.2	236	2	O6PIH4	O6pih4 homo sapien
464	356.5	22.0	116	1	HV3Q_HUMAN	P01778 homo sapien	537	344.5	21.2	236	2	O6PIT5	O6pit5 homo sapien
465	356.5	22.0	121	2	AAL35859	Aal35859 lama glam	538	344.5	21.2	236	2	AAH29444	AAH29444 homo sapi
466	356	21.9	114	2	AAL35840	Aal35840 lama glam	539	344.5	21.2	236	2	AAH34146	AAH34146 homo sapi
467	356	21.9	120	2	BAD00203	Bad00203 camelus d	540	343.5	21.2	108	1	KV1M_HUMAN	P01605 homo sapien
468	356	21.9	126	2	BAD00210	Bad00210 camelus d	541	343.5	21.2	111	1	KV3M_MOUSE	P01665 mus musculus
469	355.5	21.9	108	1	KV1O_HUMAN	P01607 homo sapien	542	343.5	21.2	123	2	BAD00237	Bad00237 camelus d

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OM protein - protein search, using sw model

Run on: December 29, 2004, 01:03:09 ; Search time 47 Seconds  
(without alignments)  
646.904 Million cell updates

Title: US-09-403-882A-2

Perfect score:

Sequence: 1 MAEVKLQESGGLVQPGGR.....VLTII SLII LMLWQKKPR 316

Scoring table: BLOSUM62

scoring cable: BLOSOM2  
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length:	9
Maximum DB seq length:	200000000

Post-processing: Minimum Match 0%

Post-processing. Minimum Match 0%  
 Maximum Match 100%  
 Listing first 6500 summaries

Database : PIR 79:\*

PIR 79:\*

1:  $\overline{\text{pirl}}$ :\*

2: pir2: \*

3: pir3:4

4: pir4:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Query #			DB	ID	Description
	Score	Match	Length			
1	892.5	55.0	268	2	A56446	Ig heavy chain V r
2	718.5	44.3	249	2	S41374	single chain Fv an
3	626.5	38.6	233	2	JC5322	p53 specific singl
4	555.5	34.2	213	2	S68213	Ig heavy chain (Ma
5	535.5	33.0	136	1	G1WS21	Ig heavy chain pre
6	522.5	32.2	121	2	B34871	Ig heavy chain V r
7	516	31.8	130	1	JL0079	Ig kappa chain pre
8	514	31.7	235	2	S25058	Ig kappa chain - m
9	511	31.5	107	2	A30562	Ig kappa chain V r
10	508	31.3	103	2	S29591	Ig kappa chain V r
11	508	31.3	104	2	B49049	Ig kappa chain V r
12	506	31.2	106	2	PS0071	Ig kappa chain V r
13	506	31.2	107	2	B30562	Ig kappa chain V r
14	501	30.9	107	2	S11118	Ig kappa chain V r
15	498	30.7	107	2	S11119	Ig kappa chain V r
16	498	30.7	107	2	PC4405	Ig kappa chain V r
17	490	30.2	107	2	S11121	Ig kappa chain V r
18	488	30.1	107	2	PT0406	Ig kappa chain V r
19	484.5	29.9	143	2	S23624	Ig heavy chain V r
20	483	29.8	107	2	S11117	Ig kappa chain V r
21	482	29.7	120	2	S12953	Ig heavy chain V r
22	481.5	29.7	108	2	G30560	Ig kappa chain V r
23	480	29.6	94	2	D25913	Ig heavy chain V r
24	479	29.5	100	2	S29590	Ig kappa chain V r
25	479	29.5	107	2	S11112	Ig kappa chain V r
26	478	29.5	108	2	PHA015	Ig kappa chain V r
27	476	29.3	107	2	PD0011	Ig kappa chain V r
28	473	29.2	97	2	PH1084	Ig light chain V r
29	473	29.2	114	2	S46392	Ig heavy chain V r

103	438	27.0	118	2	PH0096	Ig heavy chain V r	176	421.5	26.0	122	2	S31119	Ig heavy chain - h
104	438	27.0	119	2	D27889	Ig heavy chain V r	177	421.5	26.0	130	2	BL0098	Ig heavy chain pre
105	438	27.0	139	2	S38808	Ig heavy chain - m	178	421	26.0	130	2	D27888	Ig heavy chain V r
106	437.5	27.0	121	2	I55673	Ig heavy chain - h	179	421	26.0	137	2	S31701	Ig heavy chain V r
107	437	26.9	105	2	S26338	Ig kappa chain V r	180	420	25.9	98	2	S26891	Ig heavy chain V r
108	437	26.9	116	2	S31110	Ig heavy chain - h	181	420	25.9	123	2	PH1647	Ig heavy chain V r
109	436.5	26.9	130	2	S31601	Ig heavy chain V r	182	420	25.9	123	2	S63597	Ig heavy chain V r
110	436	26.9	107	1	KVMSX4	Ig kappa chain V r	183	420	25.9	145	2	S11239	Ig heavy chain, V
111	435.5	26.8	110	2	S36282	Ig heavy chain V r	184	420	25.9	249	2	S63340	Ig heavy chain V r
112	435.5	26.8	133	2	A49028	Ig heavy chain V-I	185	419.5	25.9	117	2	PL0249	Ig heavy chain V r
113	435	26.8	112	2	S26327	Ig heavy chain V r	186	419.5	25.9	127	2	S38489	Ig heavy chain V r
114	435	26.8	118	2	PH0097	Ig heavy chain V r	187	418.5	25.8	119	2	B34353	Ig heavy chain V r
115	435	26.8	120	2	A34871	Ig kappa chain V r	188	418.5	25.8	121	2	S26798	Ig heavy chain V r
116	434.5	26.8	102	2	S11115	Ig kappa chain V r	189	418.5	25.8	123	2	S30532	Ig heavy chain pre
117	434.5	26.8	138	2	S09258	Ig heavy chain V r	190	418	25.8	104	2	S29592	Ig heavy chain V r
118	433.5	26.7	120	2	S36278	Ig heavy chain V r	191	418	25.8	117	1	HVMS84	Ig heavy chain - h
119	433.5	26.7	123	2	S31114	Ig heavy chain V r	192	417.5	25.7	119	2	A34313	Ig heavy chain V r
120	433.5	26.7	140	2	S31686	Ig heavy chain V r	193	417.5	25.7	125	2	S20785	Ig heavy chain - h
121	433	26.7	107	2	PT0401	Ig light chain V r	194	417.5	25.7	139	2	I37781	Ig heavy chain V r
122	433	26.7	107	2	PT0400	Ig light chain V r	195	417	25.7	135	2	I37778	Ig variable region
123	433	26.7	118	2	PL0278	Ig kappa chain V r	196	416.5	25.7	111	2	PH1007	Ig heavy chain V r
124	433	26.7	102	2	A27889	Ig heavy chain V r	197	416	25.6	113	2	S26468	Ig heavy chain V r
125	433	26.7	123	2	G27888	Ig heavy chain V r	198	416	25.6	119	1	AVMSX4	Ig heavy chain V r
126	432.5	26.7	138	2	S31666	Ig heavy chain V r	199	416	25.6	139	2	G29380	Ig heavy chain pre
127	432	26.6	128	2	PH0095	Ig kappa chain V r	200	415.5	25.6	121	2	S31118	Ig heavy chain - h
128	432	26.6	151	2	A60943	Ig heavy chain pre	201	415	25.6	106	2	PH1008	Ig heavy chain V r
129	431.5	26.6	117	2	S34012	Ig heavy chain V r	202	415	25.6	109	2	PT0404	Ig light chain V r
130	431.5	26.6	130	2	S78486	Ig heavy chain V r	203	414.5	25.6	111	2	PH1645	Ig heavy chain V r
131	431	26.6	107	2	PT0397	Ig light chain V r	204	414.5	25.6	121	2	GHUHL	Ig heavy chain V r
132	431	26.6	120	2	S44111	Ig heavy chain V-D	205	414.5	25.6	123	2	S05289	Ig heavy chain - h
133	431	26.6	139	2	S31112	Ig heavy chain - h	206	414	25.5	125	2	S31509	Ig heavy chain pre
134	431	26.6	120	2	S31674	Ig heavy chain V r	207	413.5	25.5	102	2	S29584	Ig kappa chain V r
135	430.5	26.5	119	2	D36005	Ig heavy chain V r	208	413.5	25.5	142	2	C34903	Ig heavy chain pre
136	430	26.5	122	2	S31675	Ig heavy chain V r	209	413	25.5	107	2	PT0396	Ig light chain V r
137	429.5	26.5	125	2	S37455	Ig mu chain - huma	210	413	25.5	120	2	E49590	Ig heavy chain V r
138	429	26.4	108	2	PL0277	Ig kappa chain V r	211	413	25.5	113	2	S57410	Ig heavy chain V r
139	429	26.4	108	2	PL0276	Ig kappa chain V r	212	412.5	25.4	117	2	PL0252	Ig heavy chain V-J
140	429	26.4	122	2	S69910	Ig V-D-J region (K	213	412.5	25.4	99	2	D38601	Ig kappa chain V r
141	428	26.4	107	1	KVMSJ5	Ig kappa chain V r	214	412	25.4	117	1	HVMS34	Ig heavy chain pre
142	428	26.4	121	2	A27888	Ig heavy chain V r	215	412	25.4	99	2	S29585	Ig kappa chain V r
143	428	26.4	128	2	PH0094	Ig heavy chain V r	216	411	25.3	99	2	S51210	Ig kappa chain V r
144	427.5	26.4	120	2	S36273	Ig heavy chain V r	217	410	25.3	107	2	S11122	Ig kappa chain V r
145	427.5	26.4	124	2	C27888	Ig heavy chain V r	218	410	25.3	115	2	S38714	Ig kappa chain V r
146	427	26.3	107	2	PT0395	Ig light chain V r	219	410	25.3	126	1	GIHUKL	Ig heavy chain V-I
147	427	26.3	109	2	PT0405	Ig light chain V r	220	410	25.3	115	2	AVMS06	Ig heavy chain V-I
148	427	26.3	111	2	PL0199	anti-DNA autoantib	221	409	25.2	91	2	AVMSJ5	Ig heavy chain V r
149	427	26.3	122	2	S20772	Ig heavy chain V r	222	408.5	25.2	118	2	S31121	Ig kappa chain V r
150	426.5	26.3	109	2	PH1644	Ig heavy chain V r	223	408	25.2	117	2	S36259	Ig heavy chain V r
151	426.5	26.3	134	2	S31699	Ig heavy chain V r	224	408	25.2	107	2	PT0399	Ig heavy chain V r
152	426	26.3	117	2	S21980	Ig heavy chain V-g	225	407.5	25.1	115	1	AVMS06	Ig heavy chain V r
153	425.5	26.2	119	2	PH0098	Ig heavy chain - h	226	407	25.1	119	2	S29543	Ig heavy chain V r
154	425.5	26.2	121	2	S31113	Ig heavy chain V r	227	406	25.0	98	2	S29330	Ig heavy chain V r
155	425.5	26.2	124	2	I27888	Ig heavy chain V-I	228	406	25.0	114	2	S36280	Ig heavy chain V r
156	425.5	26.2	140	2	S22657	Ig heavy chain pre	229	406	25.0	118	2	PH1660	Ig heavy chain V r
157	425	26.2	98	2	S26894	Ig heavy chain V r	230	405.5	25.0	117	2	S36270	Ig heavy chain V r
158	425	26.2	110	2	PH1652	Ig heavy chain V r	231	405.5	25.0	127	2	S19878	Ig heavy chain V r
159	425	26.2	114	1	M3HJWE	Ig heavy chain V-I	232	405	25.0	98	2	S29543	Ig heavy chain V r
160	425	26.2	119	2	B27889	Ig heavy chain V r	233	405	25.0	98	2	S29330	Ig heavy chain V r
161	424	26.1	108	2	PH1642	Ig heavy chain V r	234	405	25.0	114	2	S36280	Ig heavy chain V r
162	424	26.1	128	2	S31595	Ig heavy chain V r	235	405	25.0	134	2	S31688	Ig heavy chain V r
163	424	26.1	136	2	S26786	Ig heavy chain V r	236	405	25.0	136	2	S13791	Ig heavy chain V r
164	424	26.1	131	2	S31587	Ig heavy chain V r	237	405	25.0	113	1	AVMSB7	Ig heavy chain V r
165	423.5	26.1	109	2	PH1646	Ig heavy chain V r	238	404.5	24.9	115	2	S44112	Ig heavy chain V-I
166	423.5	26.1	111	2	PH1643	Ig heavy chain V r	239	404.5	24.9	104	2	S26475	Ig kappa chain V r
167	423.5	26.1	118	2	S20641	Ig heavy chain V r	240	404	24.9	118	2	A49026	Ig heavy chain V r
168	423	26.1	108	2	PH1648	Ig heavy chain V r	241	404	24.9	118	2	PL0254	Ig heavy chain V r
169	423	26.1	108	2	PL0248	Ig heavy chain V r	242	404	24.9	118	2	PL0254	Ig heavy chain V r
170	423	26.1	122	1	M3HUAM	Ig heavy chain V-I	243	403.5	24.9	130	2	I37783	Ig heavy chain - m
171	423	26.1	133	2	S31510	Ig heavy chain - h	244	403.5	24.9	119	1	AVMST6	Ig heavy chain V r
172	422.5	26.0	121	2	S31104	Ig heavy chain (su	245	403	24.8	120	2	PH1534	Ig H chain V regio
173	422.5	26.0	140	2	A30532	Ig heavy chain pre	246	403	24.8	113	2	S38490	Ig heavy chain - h
174	422	26.0	121	2	H27887	Ig heavy chain V r	247	402.5	24.8	117	1	G2MSU1	Ig heavy chain V r
175	422	26.0	121	2	D27888	Ig heavy chain V r	248	402.5	24.8				

249	402.5	24.8	139	2	A25912	Ig heavy chain pre	322	389	24.0	111	1	MHMS76	Ig heavy chain V-I
250	402	24.8	116	1	M3HUGL	Ig heavy chain V-I	323	388	23.9	93	2	S17623	Ig kappa chain V r
251	402	24.8	119	2	PH1531	Ig H chain V regio	324	388	23.9	97	2	S44115	Ig kappa chain V r
252	402	24.8	124	2	S05267	Ig kappa chain pre	325	387.5	23.9	97	2	S26886	Ig heavy chain V r
253	401.5	24.8	97	1	HVMS91	Ig heavy chain V r	326	387.5	23.9	121	2	A41940	Ig heavy chain V r
254	401	24.7	91	2	S17630	Ig kappa chain V r	327	387	23.9	96	2	C33730	Ig kappa chain V r
255	401	24.7	97	2	PH0875	Ig kappa chain V r	328	387	23.9	99	2	PH1058	Ig light chain V r
256	401	24.7	97	2	PH1085	Ig light chain V r	329	387	23.9	122	1	AlHUTR	Ig heavy chain V-I
257	401	24.7	108	2	PS0069	Ig kappa chain V r	330	387	23.9	145	2	I47203	Ig heavy chain var
258	401	24.7	110	2	PH1655	Ig kappa chain V r	331	386.5	23.8	115	2	PC6026	acetylcoline recep
259	401	24.7	116	2	S21979	Ig heavy chain V-g	332	386.5	23.8	130	2	S05817	Ig heavy chain V r
260	401	24.7	137	2	S78054	Ig heavy chain pre	333	386	23.8	93	2	S17643	Ig kappa chain V r
261	401	24.7	139	2	PC1213	Ig heavy chain pre	334	386	23.8	98	2	PL0121	Ig heavy chain V-I
262	400.5	24.7	113	1	AVMSAB	Ig heavy chain V-I	335	386	23.8	114	2	PL0123	Ig heavy chain V-I
263	400.5	24.7	121	2	PH1661	Ig heavy chain V r	336	386	23.8	117	2	PH1009	Ig heavy chain V r
264	400	24.7	119	2	S31111	Ig heavy chain - h	337	386	23.8	137	2	S17079	Ig heavy chain V-g
265	400	24.7	119	2	PH1533	Ig H chain V regio	338	386	23.8	137	2	S34903	Ig heavy chain pre
266	400	24.7	129	1	KVMS7B	Ig kappa chain pre	339	385.5	23.8	97	2	S26885	Ig heavy chain V r
267	399.5	24.6	115	1	AVMS82	Ig heavy chain V-I	340	385.5	23.8	97	2	S46462	Ig heavy chain V r
268	399	24.6	94	2	S26340	Ig light chain V r	341	385.5	23.8	111	2	PH1659	Ig heavy chain V r
269	399	24.6	99	2	PH1059	Ig light chain V r	342	385.5	23.8	115	2	S36284	Ig heavy chain V r
270	399	24.6	122	2	PC2398	anti-tetanus toxin	343	385.5	23.8	121	2	A30560	Ig heavy chain V r
271	398	24.5	98	2	PL0116	Ig heavy chain V-I	344	385.5	23.8	124	2	S20784	Ig heavy chain V r
272	397.5	24.5	113	1	AVMS09	Ig heavy chain V-I	345	385	23.7	117	2	B34964	Ig heavy chain pre
273	397.5	24.5	125	2	S72665	Ig V-D-J region (R	346	385	23.7	119	1	M3HUPM	Ig heavy chain V-I
274	397.5	24.5	140	2	I47204	Ig heavy chain var	347	385	23.7	122	1	M3HUGA	Ig heavy chain V-I
275	396.5	24.4	113	1	AVMS57	Ig heavy chain V-I	348	385	23.7	137	2	D34903	Ig heavy chain pre
276	396.5	24.4	121	2	E27889	Ig heavy chain V r	349	385	23.7	141	2	I47197	Ig heavy chain var
277	396.5	24.4	121	2	H36005	Ig heavy chain V r	350	385	23.7	145	2	I47186	Ig heavy chain var
278	395.5	24.4	116	2	S17080	Ig heavy chain V-g	351	384.5	23.7	148	2	I47180	Ig heavy chain var
279	395.5	24.4	118	2	A47329	Ig heavy chain BrE	352	384	23.7	119	1	GLHUTE	Ig heavy chain V-I
280	395.5	24.4	125	2	S67945	Ig heavy chain V r	353	384	23.7	119	2	PH1548	Ig H chain V regio
281	395	24.4	98	2	S26889	Ig heavy chain V r	354	384	23.7	141	2	I32513	Ig heavy chain pre
282	395	24.4	98	2	PH0874	Ig heavy chain V r	355	383.5	23.6	115	2	S36267	Ig heavy chain V r
283	395	24.4	98	2	S29546	Ig heavy chain V r	356	383.5	23.6	121	2	S31106	Ig heavy chain - h
284	395	24.4	117	2	A45953	Ig heavy chain pre	357	383.5	23.6	138	2	I47205	Ig heavy chain var
285	394.5	24.3	113	1	AVMS61	Ig heavy chain V-I	358	383.5	23.6	139	2	S31678	Ig heavy chain V r
286	394.5	24.3	136	2	S60296	Ig heavy-chain var	359	383	23.6	111	2	S51211	Ig heavy chain V r
287	394.5	24.3	142	1	EVTR2	Ig heavy chain pre	360	383	23.6	113	2	S25571	Ig heavy chain - h
288	394.5	24.3	146	2	I47196	Ig heavy chain var	361	382.5	23.6	116	2	S12557	Ig heavy chain - h
289	394.5	24.3	146	2	I47184	Ig heavy chain var	362	382.5	23.6	120	1	M3HUBW	Ig heavy chain V-I
290	394	24.3	98	2	S26342	Ig kappa chain V r	363	382.5	23.6	144	2	B30502	Ig heavy chain V r
291	394	24.3	108	2	PH1006	Ig heavy chain V r	364	382	23.6	90	2	S26339	Ig kappa chain V r
292	394	24.3	119	2	S37453	Ig mu chain - huma	365	382	23.6	102	2	S29582	Ig kappa chain V r
293	393.5	24.3	115	1	A25HUB	Ig heavy chain V-I	366	382	23.6	106	2	S29583	Ig kappa chain V r
294	393.5	24.3	115	2	A25803	Ig heavy chain V r	367	381.5	23.5	97	2	S26935	Ig heavy chain V r
295	393.5	24.3	123	2	PC4281	Ig heavy chain V r	368	381.5	23.5	115	1	H3HUTL	Ig heavy chains V-
296	393.5	24.3	138	2	B56701	anti-SS-A/Ro 60K p	369	381.5	23.5	117	1	G2MS73	Ig heavy chain V r
297	393	24.2	93	2	S17640	Ig kappa chain V r	370	381	23.5	97	2	PH0872	Ig heavy chain V r
298	393	24.2	98	1	HVMS96	Ig heavy chain V r	371	381	23.5	114	1	AVDGGM	Ig heavy chain V r
299	393	24.2	98	2	S29545	Ig heavy chain V r	372	381	23.5	114	2	PH1658	Ig heavy chain V r
300	393	24.2	98	2	S26896	Ig heavy chain V r	373	381	23.5	118	2	A31485	Ig heavy chain V r
301	393	24.2	108	2	PH1011	Ig heavy chain V r	374	381	23.5	137	2	F34903	Ig heavy chain pre
302	393	24.2	109	2	S13699	Ig kappa chain V r	375	381	23.5	141	2	I47177	Ig H-chain - pig (
303	393	24.2	113	2	S02717	Ig heavy chain V r	376	380.5	23.5	113	1	HVMSAM	Ig heavy chain V r
304	392.5	24.2	109	2	PH1653	Ig heavy chain V r	377	380.5	23.5	123	2	A36006	Ig heavy chain V r
305	392.5	24.2	136	2	S31615	hypothetical prote	378	380	23.4	98	2	S26927	Ig heavy chain V r
306	392	24.2	91	2	S17626	Ig kappa chain V r	379	380	23.4	112	2	PH1654	Ig heavy chain V r
307	392	24.2	93	2	S17641	Ig kappa chain V r	380	380	23.4	118	2	S31677	Ig heavy chain V r
308	391.5	24.1	117	1	MHDGMO	Ig heavy chain V r	381	380	23.4	133	2	I47195	Ig heavy chain var
309	391	24.1	106	2	PS0072	Ig kappa chain V r	382	380	23.4	509	2	S17597	Ig delta chain (WI
310	391	24.1	108	1	S11125	Ig kappa chain V r	383	380	23.4	572	2	B46529	Ig Y heavy chain (
311	391	24.1	117	1	H3HU26	Ig heavy chain pre	384	379.5	23.4	116	2	B28966	Ig heavy chain pre
312	391	24.1	145	2	I47185	Ig heavy chain var	385	379.5	23.4	119	2	D30540	Ig heavy chain V r
313	390	24.0	98	2	S54856	Ig heavy chain V r	386	379	23.4	117	1	HVMS57	Ig heavy chain pre
314	390	24.0	108	2	PH1010	Ig heavy chain V r	387	379	23.4	122	2	S30533	Ig heavy chain V r
315	390	24.0	117	2	A34961	Ig heavy chain pre	388	379	23.4	127	2	S03326	Ig heavy chain pre
316	389.5	24.0	98	2	PH1061	Ig light chain V r	389	378.5	23.3	137	2	S58213	Ig heavy chain V r
317	389.5	24.0	117	2	S31109	Ig heavy chain - h	390	378.5	23.3	138	2	A30561	Ig heavy chain pre
318	389.5	24.0	119	1	GLHUNI	Ig heavy chain V-I	391	378	23.3	117	1	HVMS39	Ig heavy chain pre
319	389.5	24.0	136	2	S16847	Ig heavy chain V r	392	378	23.3	120	2	B49715	Ig heavy chain V r
320	389	24.0	93	2	S17642	Ig kappa chain V r	393	378	23.3	137	2	S42467	Ig heavy chain V r
321	389	24.0	108	2	PH1656	Ig heavy chain V r	394	377.5	23.3	119	1	AlHUBR	Ig heavy chain V-I

395	377.5	23.3	122	1	AVMSX2	Ig heavy chain V r	468	364.5	22.5	117	1	AIMS47	Ig heavy chain V r
396	377.5	23.3	124	2	PT0388	Ig heavy chain V r	469	364.5	22.5	123	2	PT0354	Ig heavy chain V r
397	377.5	23.3	140	2	S06816	Ig heavy chain pre	470	364.5	22.5	147	2	PH0131	Ig heavy chain V r
398	377	23.2	119	1	M3HULY	Ig heavy chain V-I	471	364.5	22.5	147	2	PH0125	Ig heavy chain pre
399	377	23.2	141	2	I47179	Ig heavy chain var	472	364	22.4	98	2	S26928	Ig heavy chain V r
400	377	23.2	147	2	I47183	Ig heavy chain var	473	364	22.4	122	2	S26928	Ig heavy chain V r
401	377	23.2	568	2	S34891	Ig heavy chain pre	474	363	22.4	100	2	S26942	Ig heavy chain V r
402	376.5	23.2	123	2	S34009	Ig heavy chain V r	475	363	22.4	100	2	S69896	Ig heavy chain V r
403	376	23.2	98	2	S26929	Ig heavy chain V r	476	363	22.4	102	2	S29588	Ig heavy chain V r
404	376	23.2	133	2	S31590	Ig heavy chain V r	477	363	22.4	108	2	S24251	Ig kappa chain V r
405	376	23.2	141	2	I47178	Ig heavy chain var	478	363	22.4	110	2	S69897	Ig heavy chain V r
406	375.5	23.2	138	2	A35676	Ig heavy chain pre	479	363	22.4	124	2	G30539	Ig heavy chain V r
407	375	23.1	122	2	A33989	Ig heavy chain pre	480	363	22.4	147	2	I47192	Ig heavy chain V r
408	375	23.1	145	2	S03844	Ig heavy chain V-I	481	363	22.4	148	2	PH0121	Ig heavy chain var
409	374.5	23.1	121	2	S03958	Ig heavy chain pre	482	363	22.4	148	2	PH0115	Ig heavy chain pre
410	374	23.1	99	2	PH1060	Ig light chain V-D	483	362.5	22.3	97	2	S26890	Ig heavy chain pre
411	374	23.1	117	1	HVMSRF	Ig heavy chain V r	484	362.5	22.3	108	2	S19674	Ig heavy chain V r
412	374	23.1	119	2	PH1546	Ig H chain V regio	485	362.5	22.3	123	1	AVMS14	Ig kappa chain V r
413	374	23.1	140	2	I47182	Ig heavy chain var	486	362.5	22.3	142	2	I47198	Ig heavy chain V r
414	372	22.9	114	2	PH1657	Ig heavy chain var	487	362	22.3	142	2	I47190	Ig heavy chain var
415	371.5	22.9	118	2	S38491	Ig heavy chain - h	488	361.5	22.3	113	2	PH1018	Ig heavy chain var
416	371.5	22.9	123	2	I30538	Ig heavy chain V r	489	361.5	22.3	123	1	AVMSH8	Ig heavy chain V r
417	371	22.9	94	2	S20653	Ig heavy chain V r	490	361.5	22.3	125	2	C30540	Ig heavy chain V r
418	371	22.9	108	2	PH1651	Ig heavy chain V-I	491	361.5	22.3	147	2	PH0123	Ig heavy chain V r
419	371	22.9	115	2	S57445	Ig heavy chain V-J	492	361	22.3	147	2	PH0124	Ig heavy chain pre
420	371	22.9	121	2	PT0391	Ig H chain V regio	493	361	22.3	116	1	HVMS44	Ig heavy chain pre
421	371	22.9	119	2	PH1549	Ig heavy chain V r	494	361	22.3	124	2	A30515	Ig heavy chain pre
422	371	22.9	127	2	PT0369	Ig gamma chain pre	495	361	22.3	148	2	PH0116	Ig heavy chain pre
423	370.5	22.8	96	2	PH0873	Ig heavy chain V r	496	361	22.3	148	2	PH0117	Ig heavy chain pre
424	370.5	22.8	123	1	AVMSH6	Ig heavy chain V-I	497	360.5	22.2	103	2	PH1118	Ig heavy chain pre
425	370	22.8	94	2	PL0120	Ig kappa chain - m	498	360.5	22.2	118	2	S13698	Ig heavy chain pre
426	370	22.8	103	2	S13695	Ig H chain V regio	499	360.5	22.2	142	2	D49590	Ig heavy chain V r
427	370	22.8	119	2	PH1554	Ig heavy chain pre	500	360	22.2	98	2	S26932	Ig heavy chain var
428	370	22.8	137	2	A34903	Ig heavy chain V r	501	360	22.2	116	2	S13691	Ig heavy chain V r
429	369.5	22.8	123	2	S32186	Ig heavy chain V r	502	360	22.2	143	2	I47202	Ig heavy chain V r
430	369.5	22.8	148	2	I47210	Ig heavy chain var	503	360	22.2	148	2	PH0119	Ig heavy chain V r
431	369.5	22.8	444	2	PC4436	monoclonal antibody	504	360	22.2	191	2	PL10048	Ig heavy chain pre
432	369	22.7	120	2	PH1650	Ig heavy chain V r	505	359.5	22.2	107	2	S36284	Ig heavy chain V r
433	369	22.7	124	2	S20775	Ig heavy chain V r	506	359.5	22.2	108	1	KLHUBN	Ig kappa chain V-I
434	368.5	22.7	120	2	PT0393	Ig heavy chain V r	507	359.5	22.2	108	1	KLHURY	Ig kappa chain V-I
435	368.5	22.7	142	2	I47206	Ig heavy chain V r	508	359.5	22.2	123	2	B30540	Ig heavy chain V r
436	368	22.7	119	2	PH1547	Ig heavy chain var	509	359	22.1	98	2	S26934	Ig heavy chain V r
437	368	22.7	137	2	E34903	Ig H chain V regio	510	359	22.1	113	2	S57441	Ig heavy chain V r
438	368	22.7	342	2	A46529	Ig heavy chain pre	511	359	22.1	122	1	AVMS63	Ig heavy chain V-J
439	367.5	22.7	108	2	B49047	Ig gamma chain (5.	512	359	22.1	122	2	A30556	Ig heavy chain V r
440	367.5	22.7	150	2	I47200	Ig kappa chain V r	513	359	22.1	124	1	AVMS51	Ig heavy chain V r
441	367	22.6	94	2	S20650	Ig heavy chain var	514	358.5	22.1	123	2	S40331	Ig heavy chain V r
442	367	22.6	101	2	S13696	Ig heavy chain V r	515	358.5	22.1	132	2	S40334	Ig kappa chain - h
443	367	22.6	102	2	C27889	Ig heavy chain V r	516	358.5	22.1	147	2	PH0127	Ig kappa chain - h
444	367	22.6	102	2	S13697	Ig heavy chain V r	517	358.5	22.1	147	2	PH1093	Ig heavy chain pre
445	367	22.6	118	2	E30540	Ig heavy chain V r	518	358	22.1	110	2	PH1030	Ig heavy chain V r
446	366.5	22.6	102	2	S14581	Ig heavy chain V r	519	357.5	22.0	127	2	S40367	Ig heavy chain V r
447	366.5	22.6	121	2	PT0352	Ig heavy chain V r	520	357.5	22.0	140	2	S32805	Ig kappa chain V-J
448	366.5	22.6	123	1	AVMS13	Ig heavy chain V r	521	357.5	22.0	230	2	S3161	Ig kappa chain pre
449	366.5	22.6	123	1	AVMS75	Ig heavy chain V r	522	357	22.0	123	2	PT0384	Ig kappa chain - s
450	366.5	22.6	135	2	S24320	Ig kappa chain pre	523	357	22.0	123	2	PT0386	Ig heavy chain V r
451	366	22.6	98	2	S26933	Ig heavy chain V r	524	356.5	22.0	116	1	ALHUPP	Ig heavy chain V r
452	366	22.6	118	2	PT0355	Ig heavy chain V r	525	356.5	22.0	123	2	D30259	Ig heavy chain V-I
453	366	22.6	120	1	GIHUBD	Ig heavy chain V r	526	356.5	22.0	129	2	S52789	Ig heavy chain V r
454	366	22.6	124	2	A30539	Ig heavy chain V r	527	356	22.0	115	2	S13694	Ig kappa chain V r
455	366	22.6	124	2	E30539	Ig heavy chain V r	528	355.5	21.9	108	1	KLHURE	Ig kappa chain V-I
456	366	22.6	124	2	H30539	Ig heavy chain V r	529	355.5	21.9	108	1	KLHURE	Ig kappa chain V-I
457	366	22.6	126	2	S4107	Ig heavy chain V r	530	355.5	21.9	122	2	PT0392	Ig heavy chain V r
458	366	22.6	126	2	S16280	Ig heavy chain V r	531	355.5	21.9	124	2	PT0389	Ig heavy chain V r
459	365.5	22.5	129	2	S32806	Ig kappa chain pre	532	355.5	21.9	125	2	PT0353	Ig heavy chain V r
460	365.5	22.5	220	2	S68211	Ig heavy chain V-I	533	355.5	21.9	129	2	S52793	Ig kappa chain V r
461	365	22.5	101	2	PT0511	Ig heavy chain V-I	534	355.5	21.9	133	2	S34010	Ig heavy chain V r
462	365	22.5	116	2	H29380	Ig heavy chain V r	535	355.5	21.9	144	2	PL0106	Ig kappa chain V r
463	365	22.5	117	1	PH1555	Ig heavy chain pre	536	355	21.9	123	2	PT0380	Ig kappa chain pre
464	365	22.5	119	2	A44371	Ig H chain V regio	537	354.5	21.9	107	2	S36269	Ig heavy chain V r
465	365	22.5	120	2	PH1555	Ig heavy chain V r	538	354.5	21.9	123	2	B30556	Ig lambda chain V
466	365	22.5	124	2	PT0539	Ig heavy chain V r	539	354.5	21.9	129	2	S40317	Ig heavy chain V r
467	365	22.5	137	2	I47193	Ig heavy chain var	540	354.5	21.9	129	2	S40369	Ig kappa chain - h



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OM protein - protein search, using sw model

Run on: December 29, 2004, 00:02:10 ; Search time 186 Seconds  
(without alignments)  
609.454 Million cell updates/sec

Title: US-09-403-882A-2

Perfect score: 1622

Sequence: 1 MAEVKLQESGGGLVQPGGSR.....VLTITSLILMLWQKKPR 316

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2002273 seqs, 358729299 residues

Total number of hits satisfying chosen parameters: 2002273

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 65000 summaries

Database : A.Geneseq\_23Sep04:\*

1: geneseqp1980s:\*

2: geneseqp1990s:\*

3: geneseqp2000s:\*

4: geneseqp2001s:\*

5: geneseqp2002s:\*

6: geneseqp2003as:\*

7: geneseqp2003bs:\*

8: geneseqp2004s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1622	100.0	316	2	AAY32086 Single ch
2	1319	81.3	255	3	AAB11398 E. coli e
3	1319	81.3	255	4	AAB74199 PelB-scfv
4	1319	81.3	255	4	AAB70769 Expressio
5	1319	81.3	255	4	AAY72020 E. caroto
6	1237	76.3	241	6	ABR62010 Single-ch
7	1237	75.6	241	5	AAM48925 scFv anti
8	1194	73.6	236	2	AAR32842 VH N010/1
9	1185	73.1	240	2	AAR58613 Single ch
10	1097.5	67.7	223	2	AAR32841 VH N010/1
11	1008	62.1	580	2	AAM90217 Bispesicfi
12	1001	61.7	556	2	AAM90218 Bispesicfi
13	976.5	60.2	237	7	AAR38657 Mouse G1
14	970.5	59.8	268	3	AAY44973 Recombina
15	967.5	59.6	268	3	AAY44972 Recombina
16	964.5	59.5	284	2	AAR95569 Intracell
17	959	59.1	291	8	ADN06993 Human EFG
18	954	58.8	280	6	ABR42055 Newcastle
19	939	57.9	234	2	AAR64819 OMVU10 Sc
20	938.5	57.9	235	2	AAR32840 VH N02/12
21	937.5	57.8	272	8	ADOL9054 Human ant
22	937	57.8	258	2	AAM90221 Anti-B7.1
23	935.5	57.7	294	4	AAE20442 Anti-FIX/
24	934.5	57.6	293	4	AAG65715 Amino aci
25	928.5	57.2	282	6	ABJ19276 Anti-huma

99	884	54.5	242	6	ABR62131	Single ch	Abc62131	Single ch	172	861	53.1	282	2	AAW35564	HindIII-E
100	884	54.5	246	8	ADH50844	SGIII RBE	Adh50844	SGIII RBE	173	861	53.1	492	8	ADQ91082	Antibody
101	883.5	54.5	239	7	ADG30415	Human GMB	Adg30415	Human GMB	174	860.5	53.1	241	5	ABP45878	Human Bly
102	882	54.4	266	8	ADH77307	Yeast k11	Adh77307	Yeast k11	175	860.5	53.1	241	7	ADG96705	Single ch
103	881.5	54.3	245	8	ADY06715	Antibody	Ady06715	Antibody	176	860.5	53.1	245	8	ADI58105	Reg IV-ep
104	881.5	54.3	245	8	ADY06715	Antibody	Ady06715	Antibody	177	860	53.0	240	4	ABP45998	Human MUC
105	881	54.3	246	8	ADH50843	Human c-m	Adh50843	Human c-m	178	860	53.0	240	4	ABP45998	Human MUC
106	880.5	54.3	247	8	ADH34575	scFv SC02	Adh34575	scFv SC02	179	860	53.0	240	4	ABP45998	Human MUC
107	880	54.3	247	8	ADH34575	scFv SC02	Adh34575	scFv SC02	180	860	53.0	492	8	ADQ91100	Human TF
108	878	54.1	240	4	ABP46002	Human MUC	Abp46002	Human MUC	181	859	53.0	492	8	ADQ91102	Antibody
109	878	54.1	240	4	ABP46002	Human MUC	Abp46002	Human MUC	182	859	53.0	240	4	ABP46002	Human MUC
110	878	54.1	241	7	ADP31766	Human Bly	Adp31766	Human Bly	183	859	53.0	240	4	ABP46002	Human MUC
111	877	54.1	270	2	AAW75719	Anti-CEA	Aaw75719	Anti-CEA	184	859	53.0	248	5	ABP44993	Human TF
112	876.5	54.0	238	5	AAE25963	KDR bindi	Aae25963	KDR bindi	185	859	53.0	248	5	ADG95820	Human Bly
113	876.5	54.0	238	5	AAE25963	KDR bindi	Aae25963	KDR bindi	186	858.5	52.9	495	5	AAE22193	Single ch
114	876.5	54.0	238	6	AAU74420	Antigen-b	Aau74420	Antigen-b	187	858.5	52.9	284	2	AAU06130	Murine CC
115	876.5	54.0	238	8	ADK18222	VEGF bind	Adk18222	VEGF bind	188	858.5	52.9	284	4	AAU06130	Monoclonal
116	875.5	54.0	239	5	ABP45911	Mouse kin	Abp45911	Mouse kin	189	858	52.9	240	4	AAU06130	Type II c
117	875.5	54.0	239	7	ADG96738	Human Bly	Adg96738	Human Bly	190	857.5	52.9	242	4	ABP46002	Human MUC
118	875.5	54.0	301	4	ABP46002	Human MUC	Abp46002	Human MUC	191	857.5	52.9	242	4	ABP46002	Human MUC
119	875	53.9	240	4	ABP46002	Human MUC	Abp46002	Human MUC	192	857.5	52.9	247	5	AAU09094	Human MUC
120	875	53.9	240	4	ABP46002	Human MUC	Abp46002	Human MUC	193	857.5	52.9	247	5	AAU09094	Human MUC
121	874.5	53.9	243	8	ADN36307	Hamster a	Adn36307	Hamster a	194	857.5	52.9	556	4	AAU09094	Insulin/i
122	874.5	53.9	243	8	ADN36307	Hamster a	Adn36307	Hamster a	195	857.5	52.9	556	4	AAU09094	Insulin/i
123	874	53.9	240	4	ABP46002	Human TF	Abp46002	Human TF	196	857	52.8	240	4	ABP46002	Human TF
124	873.5	53.9	301	2	AAW11507	Single ch	Aaw11507	Single ch	197	857	52.8	240	4	ABP46002	Human TF
125	873.5	53.9	301	2	AAW11507	Single ch	Aaw11507	Single ch	198	856.5	52.8	240	4	ABP46002	Human TF
126	873.5	53.9	301	4	ABP46002	Human TF	Abp46002	Human TF	199	856.5	52.8	240	4	ABP46002	Human TF
127	873	53.8	240	4	ABP46002	Human TF	Abp46002	Human TF	200	856	52.8	240	4	ABP46002	Human TF
128	873	53.8	240	4	ABP46002	Human TF	Abp46002	Human TF	201	856	52.8	240	4	ABP46002	Human TF
129	873	53.8	492	8	ADQ91084	Antibody	Adq91084	Antibody	202	856	52.8	240	4	ABP46002	Human TF
130	873	53.8	492	8	ADQ91084	Antibody	Adq91084	Antibody	203	855.5	52.7	295	8	ADN07004	Human MUC
131	872.5	53.8	732	3	AAW20437	Anti-FIX/	Aaw20437	Anti-FIX/	204	855	52.7	240	4	ABP46002	Human MUC
132	872	53.8	242	3	AAW20437	Anti-FIX/	Aaw20437	Anti-FIX/	205	855	52.7	240	4	ABP46002	Human MUC
133	871.5	53.7	247	5	ABP45865	Human Bly	Abp45865	Human Bly	206	855	52.7	240	4	ABP46002	Human MUC
134	871.5	53.7	247	5	ABP45865	Human Bly	Abp45865	Human Bly	207	855	52.7	244	2	AAW06716	Antibody
135	871	53.7	247	5	ABP45865	Human Bly	Abp45865	Human Bly	208	855	52.7	244	2	AAW06716	Antibody
136	871	53.7	248	5	ABP45865	Human Bly	Abp45865	Human Bly	209	855	52.7	256	4	ADQ39735	Human c-m
137	870.5	53.7	248	7	ADG96692	Single ch	Adg96692	Single ch	210	854	52.7	239	5	AAU09095	Insulin/i
138	870	53.6	240	4	ABP46002	Human MUC	Abp46002	Human MUC	211	854	52.7	240	4	ABP46002	Human MUC
139	869	53.6	240	4	ABP46002	Human MUC	Abp46002	Human MUC	212	854	52.7	788	2	AAW53882	Human MUC
140	869	53.6	240	4	ABP46002	Human MUC	Abp46002	Human MUC	213	853.5	52.6	242	2	AAW53882	Human MUC
141	869	53.6	240	4	ABP46002	Human MUC	Abp46002	Human MUC	214	853	52.6	240	4	ABP46002	Human MUC
142	868.5	53.5	492	8	ADQ91088	Antibody	Adq91088	Antibody	215	853	52.6	240	4	ABP46002	Human MUC
143	868	53.5	325	4	ABP46002	Human MUC	Abp46002	Human MUC	216	853	52.6	240	4	ABP46002	Human MUC
144	868	53.5	244	8	ADK18141	CAB1-ecFv	Adk18141	CAB1-ecFv	217	853	52.6	240	4	ABP46002	Human MUC
145	868	53.5	244	8	ADJ54093	CAB-1 scF	Adj54093	CAB-1 scF	218	853	52.6	240	4	ABP46002	Human MUC
146	868	53.5	492	8	ADQ91092	Antibody	Adq91092	Antibody	219	852.5	52.5	615	7	ADG32341	Synthetic
147	867	53.5	240	4	ABP46002	Human MUC	Abp46002	Human MUC	220	852	52.5	239	4	ABP46002	Human MUC
148	867	53.5	240	4	ABP46002	Human MUC	Abp46002	Human MUC	221	852	52.5	239	4	ABP46002	Human MUC
149	867	53.5	409	5	ABP46002	Human MUC	Abp46002	Human MUC	222	852	52.5	239	4	ABP46002	Human MUC
150	867	53.5	409	6	ADK14263	Human MUC	Adk14263	Human MUC	223	852	52.5	239	4	ABP46002	Human MUC
151	867	53.5	492	8	ADQ91106	Antibody	Adq91106	Antibody	224	852	52.5	240	4	ABP46002	Human MUC
152	867	53.5	492	8	ADQ91088	Antibody	Adq91088	Antibody	225	852	52.5	599	3	AAW37132	Human bet
153	867	53.5	492	8	ADQ91088	Antibody	Adq91088	Antibody	226	851.5	52.5	599	3	AAW37132	Human bet
154	867	53.5	531	3	AAW43749	Antibody	Aaw43749	Antibody	227	851.5	52.5	241	7	ADG96717	Anti-Tac
155	866.5	53.4	281	6	AAW33333	Antibody	Aaw33333	Antibody	228	851.5	52.5	241	7	ADG96717	Anti-Tac
156	866	53.4	240	4	ABP46002	Human MUC	Abp46002	Human MUC	229	851.5	52.5	251	5	ABP45309	Human Bly
157	864.5	53.3	238	5	AAE25961	Human TF	Aae25961	Human TF	230	851	52.5	251	5	ABP45309	Human Bly
158	864.5	53.3	239	5	ABP45871	Human Bly	Abp45871	Human Bly	231	851	52.5	251	5	ABP45309	Human Bly
159	864.5	53.3	239	7	ADG96698	Single ch	Adg96698	Single ch	232	851	52.5	251	5	ABP45309	Human Bly
160	864	53.3	258	4	ABP46002	Human MUC	Abp46002	Human MUC	233	850.5	52.4	242	2	AAW90224	Anti-TNF
161	864	53.3	492	8	ADQ91090	Antibody	Adq91090	Antibody	234	850.5	52.4	242	2	AAW90224	Anti-TNF
162	863.5	53.2	249	4	ABP46002	Human MUC	Abp46002	Human MUC	235	850	52.4	244	8	ADQ91104	Antibody
163	863	53.2	240	4	ABP46002	Human MUC	Abp46002	Human MUC	236	850	52.4	244	8	ADQ91104	Antibody
164	862	53.1	240	4	ABP46002	Human MUC	Abp46002	Human MUC	237	850	52.4	244	8	ADQ91104	Antibody
165	862	53.1	240	4	ABP46002	Human MUC	Abp46002	Human MUC	238	850	52.4	244	8	ADQ91104	Antibody
166	862	53.1	242	2	AAW53881	Human TF	Aaw53881	Human TF	239	849	52.3	562	6	ABP46002	Human MUC
167	862	53.1	492	8	ADQ91096	Antibody	Adq91096	Antibody	240	847.5	52.3	638	8	ADL27333	Amino aci
168	861	53.1	239	3	ABP46002	Human MUC	Abp46002	Human MUC	241	847.5	52.2	240	4	ADL27333	Amino aci
169	861	53.1	239	3	ABP46002	Human MUC	Abp46002	Human MUC	242	847	52.2	241	8	ADL27333	Amino aci
170	861	53.1	269	2	AAW32569	Human MUC	Aaw32569	Human MUC	243	846.5	52.2	241	8	ADL27333	Amino aci
171	861	53.1	282	2	AAW09818	Single ch	Aaw09818	Single ch	244	846.5	52.2	241	7	ADG96703	Single ch

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OM protein - protein search, using sw model

Run on: December 29, 2004, 01:16:25 ; Search time 51 Seconds

(without alignments)  
410.912 Million cell updates/sec

Title: US-09-403-882A-2

Perfect score: 1622

Sequence: 1 MAEVLQBSGGVLPQGSRR.....VLTITSLILIMLQKKPR 316

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 65000 summaries

Database : Issued Patents AA:\*

1: /cgn2\_6/prodata/1/iaa/5A\_COMB.pep.\*  
2: /cgn2\_6/prodata/1/iaa/5B\_COMB.pep.\*  
3: /cgn2\_6/prodata/1/iaa/6A\_COMB.pep.\*  
4: /cgn2\_6/prodata/1/iaa/6B\_COMB.pep.\*  
5: /cgn2\_6/prodata/1/iaa/PCTUS\_COMB.pep.\*  
6: /cgn2\_6/prodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1319	81.3	255	3	US-09-553-498-8
2	1319	81.3	255	4	US-09-618-869-8
3	1199	73.9	236	2	US-08-190-199A-65
4	1195	73.1	240	2	US-08-956-047-25
5	1102.5	68.0	223	2	US-08-190-199A-63
6	964.5	59.5	284	3	US-08-364-164A-2
7	943.5	58.2	235	2	US-08-190-199A-61
8	919	56.7	553	2	US-09-188-082-16
9	919	56.7	553	3	US-09-364-088-16
10	919	56.7	553	3	US-09-102-716-16
11	919	56.7	553	3	US-09-102-716-16
12	907	55.9	353	4	US-09-203-958A-4
13	900.5	55.5	281	3	US-09-423-439-44
14	897.5	55.3	245	4	US-09-138-091A-76
15	894	55.1	240	4	US-09-192-854-2
16	890.5	54.9	245	3	US-08-918-148-75
17	890.5	54.9	245	3	US-08-918-148-75
18	890.5	54.9	245	4	US-09-138-091A-73
19	881.5	54.3	245	3	US-08-918-148-76
20	881.5	54.3	245	4	US-09-138-091A-74
21	877	54.1	270	2	US-08-652-507-2
22	873.5	53.9	301	2	US-08-661-052-14
23	873.5	53.9	301	3	US-09-188-082-14
24	873.5	53.9	301	3	US-09-364-088-14
25	873.5	53.9	301	3	US-09-102-716-14
26	864	53.3	258	4	US-09-526-738A-4
27	861	53.1	239	3	US-08-979-772A-8

28	861	53.1	239	3	US-08-902-486-11	Sequence 11, Appl
29	861	53.1	282	2	US-08-860-174A-10	Sequence 10, Appl
30	859	53.0	495	4	US-09-948-004-18	Sequence 18, Appl
31	858.5	52.9	284	3	US-09-184-658-40	Sequence 40, Appl
32	858.5	52.9	284	4	US-09-504-262D-40	Sequence 40, Appl
33	855	52.7	244	3	US-08-918-148-77	Sequence 77, Appl
34	855	52.7	244	4	US-09-138-091A-75	Sequence 75, Appl
35	855	52.7	256	4	US-09-526-738A-2	Sequence 2, Appl
36	853.5	52.6	242	2	US-08-553-497A-26	Sequence 26, Appl
37	852	52.5	599	1	US-08-463-163-3	Sequence 3, Appl
38	851	52.5	246	1	US-08-469-486-57	Sequence 57, Appl
39	851	52.5	246	2	US-08-469-486-57	Sequence 57, Appl
40	850	52.4	666	3	US-09-423-439-51	Sequence 51, Appl
41	847	52.2	222	2	US-08-190-199A-67	Sequence 67, Appl
42	840.5	51.8	244	2	US-08-553-497A-20	Sequence 20, Appl
43	838.5	51.7	242	2	US-08-553-497A-28	Sequence 28, Appl
44	836.5	51.6	244	2	US-08-553-497A-22	Sequence 22, Appl
45	834	51.4	310	3	US-09-079-029-11	Sequence 11, Appl
46	829	51.1	289	3	US-09-184-658-63	Sequence 63, Appl
47	829	51.1	289	4	US-09-504-262D-63	Sequence 63, Appl
48	828	51.0	239	2	US-08-553-497A-18	Sequence 18, Appl
49	819.5	50.3	246	2	US-08-553-497A-24	Sequence 24, Appl
50	815.5	50.3	267	3	US-09-485-737B-2	Sequence 2, Appl
51	813.5	50.2	240	1	US-08-488-113B-148	Sequence 148, App
52	813.5	50.2	240	1	US-08-477-484B-148	Sequence 148, App
53	813.5	50.2	240	2	US-08-646-360-148	Sequence 148, App
54	813.5	50.2	240	3	US-08-839-765-148	Sequence 148, App
55	813.5	50.2	240	3	US-09-136-389-148	Sequence 148, App
56	813.5	50.2	240	3	US-09-610-838-148	Sequence 148, App
57	813.5	50.2	240	4	US-09-711-485-148	Sequence 148, App
58	807.5	49.8	711	3	US-09-485-737B-90	Sequence 90, Appl
59	806.5	49.7	541	3	US-09-485-737B-85	Sequence 85, Appl
60	804	49.6	297	4	US-09-486-814A-2	Sequence 2, Appl
61	803.5	49.5	281	3	US-09-025-769B-178	Sequence 178, App
62	803.5	49.5	281	4	US-09-490-070A-178	Sequence 178, App
63	803.5	49.5	281	4	US-09-490-153-178	Sequence 2, Appl
64	799	49.3	243	1	US-07-958-140-2	Sequence 2, Appl
65	799	49.3	243	5	PCT-US93-09166-2	Sequence 2, Appl
66	799	49.3	359	4	US-09-646-028-16	Sequence 16, Appl
67	799	49.3	361	4	US-09-646-028-13	Sequence 13, Appl
68	790.5	48.7	247	3	US-09-227-693-34	Sequence 34, Appl
69	790.5	48.7	248	1	US-08-331-398A-34	Sequence 34, Appl
70	790.5	48.7	248	2	US-08-331-397B-34	Sequence 34, Appl
71	790.5	48.7	248	2	US-08-759-804A-34	Sequence 34, Appl
72	787.5	48.6	277	2	US-08-256-790-2	Sequence 2, Appl
73	784	48.3	312	3	US-09-079-029-10	Sequence 10, Appl
74	776	47.8	264	3	US-08-564-164A-4	Sequence 4, Appl
75	775	47.8	248	2	US-08-887-352B-22	Sequence 22, Appl
76	775	47.8	248	3	US-09-109-207C-22	Sequence 22, Appl
77	775	47.8	248	3	US-09-296-005-22	Sequence 22, Appl
78	775	47.8	248	4	US-09-920-171-22	Sequence 22, Appl
79	775	47.8	248	4	US-09-716-028-22	Sequence 22, Appl
80	775	47.8	248	4	US-10-113-996-22	Sequence 22, Appl
81	771	47.5	248	2	US-08-887-352B-23	Sequence 23, Appl
82	771	47.5	248	3	US-09-109-207C-23	Sequence 23, Appl
83	771	47.5	248	3	US-09-296-005-23	Sequence 23, Appl
84	771	47.5	248	4	US-09-920-171-23	Sequence 23, Appl
85	771	47.5	248	4	US-09-716-028-23	Sequence 23, Appl
86	771	47.5	248	4	US-10-113-996-23	Sequence 23, Appl
87	767.5	47.3	268	4	US-09-554-765-2	Sequence 2, Appl
88	766.5	47.3	408	4	US-09-554-765-15	Sequence 15, Appl
89	766.5	47.3	409	4	US-09-554-765-14	Sequence 14, Appl
90	766	47.2	240	3	US-09-485-737B-91	Sequence 91, Appl
91	760.5	46.9	280	3	US-09-260-527-1	Sequence 1, Appl
92	760.5	46.9	482	4	US-09-509-031-16	Sequence 16, Appl
93	759.5	46.8	309	3	US-09-079-029-9	Sequence 9, Appl
94	744	45.9	288	3	US-09-423-439-38	Sequence 38, Appl
95	735.5	45.3	235	3	US-09-485-737B-93	Sequence 93, Appl
96	731.5	45.1	244	4	US-09-244-369B-1	Sequence 1, Appl
97	731.5	45.1	244	4	US-09-940-391-1	Sequence 1, Appl
98	731.5	45.1	246	1	US-07-843-125-1	Sequence 1, Appl
99	731	45.1	240	4	US-10-092-246-36	Sequence 36, Appl
100	728	44.9	240	4	US-10-092-246-35	Sequence 35, Appl

101	725	44.7	535	3	US-08-983-035A-38	Sequence 38, Appl	174	615.5	37.9	483	3	US-09-166-750-19	Sequence 19, Appl
102	717	44.2	248	4	US-09-649-063-23	Sequence 23, Appl	175	615.5	37.9	483	3	US-09-166-093-19	Sequence 19, Appl
103	716	44.1	240	1	US-10-092-246-37	Sequence 37, Appl	176	615.5	37.9	483	3	US-09-172-019-19	Sequence 19, Appl
104	713.5	44.0	246	1	US-07-843-125-11	Sequence 11, Appl	177	615.5	37.9	483	3	US-09-166-094-19	Sequence 19, Appl
105	712	43.9	269	3	US-08-646-265A-109	Sequence 109, App	178	615.5	37.9	483	4	US-09-443-213-19	Sequence 5, Appl
106	710	43.8	354	4	US-09-393-627B-28	Sequence 28, Appl	179	611.5	37.7	258	2	US-08-665-202-5	Sequence 5, Appl
107	709	43.7	273	2	US-08-403-853-18	Sequence 18, Appl	180	611.5	37.7	258	4	US-09-315-574-5	Sequence 5, Appl
108	705	43.5	230	3	US-09-485-737B-102	Sequence 102, App	181	607	37.4	553	2	US-08-263-911-9	Sequence 9, Appl
109	705	43.5	265	2	US-08-403-853-16	Sequence 16, Appl	182	606	37.4	244	3	US-08-918-148-79	Sequence 79, Appl
110	700.5	43.2	615	4	US-08-840-713-35	Sequence 35, Appl	183	606	37.4	244	4	US-09-138-091A-77	Sequence 77, Appl
111	700.5	43.2	615	4	US-08-840-713-37	Sequence 37, Appl	184	605	37.3	274	2	US-08-860-174A-12	Sequence 12, Appl
112	700	43.2	637	1	US-08-235-838-14	Sequence 14, Appl	185	597.5	36.8	249	3	US-08-918-148-74	Sequence 74, Appl
113	700	43.2	637	2	US-08-465-473B-14	Sequence 14, Appl	186	597.5	36.8	249	4	US-09-138-091A-72	Sequence 72, Appl
114	700	43.2	711	1	US-08-235-838-7	Sequence 7, Appl	187	573.5	35.4	252	1	US-08-133-804-4	Sequence 4, Appl
115	700	43.2	711	2	US-08-235-838-7	Sequence 7, Appl	188	573.5	35.4	252	1	US-08-461-838-4	Sequence 4, Appl
116	699	43.1	530	4	US-08-465-473B-7	Sequence 7, Appl	189	573.5	35.4	252	2	US-08-461-838-4	Sequence 4, Appl
117	697.5	43.0	228	5	PCT-US92-08257-9	Sequence 9, Appl	190	573	35.3	135	2	US-08-956-047-34	Sequence 4, Appl
118	696.5	42.9	355	3	US-08-875-811-57	Sequence 57, Appl	191	572.5	35.3	246	1	US-08-257-341-7	Sequence 34, Appl
119	695.5	42.9	257	4	US-10-092-246-2	Sequence 2, Appl	192	572.5	35.3	367	1	US-08-257-341-7	Sequence 7, Appl
120	695	42.8	241	1	US-08-235-838-5	Sequence 5, Appl	193	567	35.0	113	2	US-08-956-047-30	Sequence 30, Appl
121	695	42.8	241	2	US-08-465-473B-5	Sequence 5, Appl	194	567	35.0	269	4	US-09-358-321C-32	Sequence 32, Appl
122	693.5	42.8	673	3	US-09-423-439-32	Sequence 32, Appl	195	567	35.0	280	3	US-09-214-095D-119	Sequence 119, App
123	691	42.6	366	3	US-08-800-198-8	Sequence 8, Appl	196	563	34.7	638	3	US-09-070-637-20	Sequence 20, Appl
124	690	42.5	240	3	US-08-800-198-8	Sequence 8, Appl	197	554.5	34.2	489	5	PCT-US95-11405-35	Sequence 35, Appl
125	690	42.5	240	3	US-09-318-786-37	Sequence 37, Appl	198	539	33.2	170	2	US-08-652-558-40	Sequence 40, Appl
126	689	42.5	287	4	US-10-092-246-33	Sequence 33, Appl	199	535	33.0	128	2	US-08-956-047-31	Sequence 31, Appl
127	684.5	42.2	239	4	US-10-092-246-32	Sequence 32, Appl	200	534	33.0	117	2	US-08-956-047-33	Sequence 51, Appl
128	683.5	42.1	239	4	US-10-092-246-34	Sequence 34, Appl	201	534	32.9	106	2	US-08-956-047-33	Sequence 33, Appl
129	683	42.1	240	4	US-10-092-246-34	Sequence 34, Appl	202	530	32.7	117	1	US-07-942-245-32	Sequence 32, Appl
130	683	42.1	268	4	US-09-976-118-1	Sequence 1, Appl	203	528	32.6	135	3	US-08-619-491-4	Sequence 4, Appl
131	682.5	42.1	534	2	US-08-356-786-10	Sequence 10, Appl	204	528	32.6	135	5	PCT-US95-07302-4	Sequence 4, Appl
132	682	42.0	365	3	US-08-875-811-53	Sequence 53, Appl	205	522	32.2	131	3	US-08-983-607-28	Sequence 28, Appl
133	673.5	41.5	249	2	US-08-797-689-18	Sequence 18, Appl	206	518.5	32.0	117	2	US-08-650-262-4	Sequence 4, Appl
134	673.5	41.5	249	4	US-09-984-186-18	Sequence 18, Appl	207	518	31.9	108	4	US-09-948-004-28	Sequence 28, Appl
135	671.5	41.4	334	4	US-08-646-028-53	Sequence 53, Appl	208	518	31.9	140	3	US-08-983-607-32	Sequence 32, Appl
136	671.5	41.4	339	4	US-09-646-028-55	Sequence 55, Appl	209	516	31.8	270	4	US-09-976-118-2	Sequence 2, Appl
137	671.5	41.4	348	4	US-09-646-028-51	Sequence 51, Appl	210	505.5	31.2	119	3	US-09-408-535-2	Sequence 2, Appl
138	670.5	41.3	260	2	US-08-447-402-1	Sequence 1, Appl	211	505	31.1	106	3	US-08-397-411-9	Sequence 9, Appl
139	666	41.1	637	1	US-08-235-838-16	Sequence 16, Appl	212	503	31.0	235	2	US-08-303-569B-5	Sequence 5, Appl
140	666	41.1	637	2	US-08-465-473B-16	Sequence 16, Appl	213	503	31.0	235	2	US-08-116-247-5	Sequence 5, Appl
141	661	40.8	241	1	US-08-235-838-11	Sequence 11, Appl	214	503	31.0	235	4	US-09-795-515-5	Sequence 5, Appl
142	661	40.8	241	2	US-08-465-473B-11	Sequence 11, Appl	215	503	31.0	235	4	US-09-348-224-5	Sequence 5, Appl
143	654.5	40.4	269	3	US-09-070-408-132	Sequence 132, App	216	502	30.9	103	1	US-08-467-393-4	Sequence 4, Appl
144	648.5	40.0	278	3	US-09-260-527-3	Sequence 3, Appl	217	502	30.9	135	5	PCT-US95-07302-8	Sequence 8, Appl
145	642.5	39.6	240	2	US-08-459-354-4	Sequence 4, Appl	218	501	30.9	117	1	US-07-942-245-38	Sequence 38, Appl
146	642.5	39.6	240	2	US-08-077-253-4	Sequence 4, Appl	219	501	30.9	128	2	US-08-656-586-2	Sequence 2, Appl
147	642.5	39.6	240	3	US-08-333-840-4	Sequence 4, Appl	220	499	30.8	107	2	US-08-303-569B-29	Sequence 29, Appl
148	640.5	39.5	225	6	5455030-5	Patent No. 5455030	221	499	30.8	107	2	US-08-070-116A-6	Sequence 6, Appl
149	639.5	39.4	250	1	US-08-133-804-2	Sequence 2, Appl	222	499	30.8	107	2	US-08-116-247-8	Sequence 8, Appl
150	639.5	39.4	250	1	US-08-461-184-8	Sequence 8, Appl	223	499	30.8	107	4	US-08-557-050-6	Sequence 6, Appl
151	639.5	39.4	250	1	US-08-463-675-8	Sequence 8, Appl	224	499	30.8	107	4	US-08-795-515-29	Sequence 29, Appl
152	639.5	39.4	250	1	US-08-464-589-8	Sequence 8, Appl	225	499	30.8	107	4	US-09-348-224-8	Sequence 8, Appl
153	639.5	39.4	250	1	US-08-461-838-2	Sequence 2, Appl	226	498.5	30.7	110	3	US-08-836-561-33	Sequence 33, Appl
154	639.5	39.4	250	2	US-08-461-386-2	Sequence 2, Appl	227	498.5	30.7	110	4	US-08-434-122-33	Sequence 33, Appl
155	637.5	39.3	263	2	US-08-752-844-66	Sequence 66, Appl	228	498	30.7	135	3	US-08-619-491-8	Sequence 8, Appl
156	637.5	39.3	263	4	US-09-293-533-66	Sequence 66, Appl	229	497	30.6	100	2	US-08-308-494A-19	Sequence 19, Appl
157	634.5	39.1	243	1	US-08-133-804-6	Sequence 6, Appl	230	496.5	30.6	443	5	PCT-US96-13152-4	Sequence 4, Appl
158	634.5	39.1	243	1	US-08-461-838-6	Sequence 6, Appl	231	495.5	30.5	255	2	US-07-690-192-4	Sequence 4, Appl
159	634.5	39.1	243	2	US-08-461-386-6	Sequence 6, Appl	232	490.5	30.2	125	1	US-08-331-398A-65	Sequence 65, Appl
160	634.5	39.1	243	2	US-08-356-786-4	Sequence 4, Appl	233	490.5	30.2	125	2	US-08-331-397B-65	Sequence 65, Appl
161	634	39.1	352	4	US-09-203-958A-2	Sequence 2, Appl	234	490.5	30.2	125	2	US-08-759-804A-64	Sequence 64, Appl
162	629	38.8	271	2	US-08-894-922A-10	Sequence 10, Appl	235	490	30.2	128	3	US-08-619-491-2	Sequence 2, Appl
163	627	38.7	348	4	US-09-646-028-12	Sequence 12, Appl	236	490	30.2	128	5	PCT-US95-07302-2	Sequence 2, Appl
164	627	38.7	361	4	US-09-646-028-12	Sequence 12, Appl	237	486.5	30.0	107	1	US-07-942-245-3	Sequence 3, Appl
165	625	38.5	553	2	US-08-263-911-7	Sequence 7, Appl	238	486	30.0	248	4	US-09-315-526A-80	Sequence 80, Appl
166	622.5	38.4	402	2	US-08-491-988-9	Sequence 9, Appl	239	486	30.0	456	4	US-09-495-880A-11	Sequence 11, Appl
167	620	38.2	252	2	US-08-894-922A-14	Sequence 14, Appl	240	485.5	29.9	117	2	US-08-652-558-46	Sequence 46, Appl
168	619.5	38.2	269	2	US-08-428-257A-72	Sequence 72, Appl	241	485	29.9	108	3	US-09-171-945-9	Sequence 9, Appl
169	619.5	38.2	269	2	US-08-491-988-3	Sequence 3, Appl	242	485	29.9	235	3	US-09-171-945-17	Sequence 17, Appl
170	619.5	38.2	415	2	US-08-491-988-7	Sequence 7, Appl	243	483.5	29.8	451	4	US-09-472-087-70	Sequence 70, Appl
171	619.5	38.2	435	2	US-08-491-988-5	Sequence 5, Appl	244	482.5	29.7	117	2	US-08-652-558-45	Sequence 45, Appl
172	616.5	38.0	622	2	US-08-356-786-16	Sequence 16, Appl	245	480.5	29.6	117	2	US-08-652-558-44	Sequence 44, Appl
173	615.5	37.9	483	2	US-08-392-338A-19	Sequence 19, Appl	246	479	29.5	117	1	US-07-942-245-34	Sequence 34, Appl

247	477	29.4	225	4	US-09-456-090A-60	Sequence 60, Appl	320	455	28.1	139	1	US-08-129-930B-96	Sequence 96, Appl
248	477	29.4	225	4	US-09-456-090A-92	Sequence 92, Appl	321	455	28.1	139	3	US-08-134-346A-51	Sequence 51, Appl
249	477	29.4	225	4	US-09-453-234-60	Sequence 60, Appl	322	455	28.1	139	3	US-08-976-288A-96	Sequence 96, Appl
250	477	29.4	225	4	US-09-453-234-92	Sequence 92, Appl	323	455	28.1	225	4	US-09-456-090A-58	Sequence 58, Appl
251	476	29.3	225	4	US-09-456-090A-108	Sequence 108, App	324	455	28.1	225	4	US-09-453-234-58	Sequence 58, Appl
252	476	29.3	225	4	US-09-453-234-108	Sequence 108, App	325	454.5	28.0	300	2	US-08-661-052-4	Sequence 4, Appl
253	474.5	29.3	117	1	US-08-652-558-3	Sequence 3, Appl	326	454.5	28.0	300	3	US-09-188-082-4	Sequence 4, Appl
254	474	29.2	117	1	US-07-942-245-36	Sequence 36, Appl	327	454.5	28.0	300	3	US-09-364-088-4	Sequence 4, Appl
255	474	29.2	225	4	US-09-456-090A-56	Sequence 56, Appl	328	454.5	28.0	300	3	US-09-102-716-4	Sequence 4, Appl
256	474	29.2	225	4	US-09-453-234-56	Sequence 56, Appl	329	454	28.0	144	4	US-09-318-786-29	Sequence 29, Appl
257	473.5	29.2	123	2	US-08-665-202-30	Sequence 30, Appl	330	454	28.0	225	4	US-09-456-090A-66	Sequence 66, Appl
258	473.5	29.2	123	4	US-09-315-574-30	Sequence 30, Appl	331	454	28.0	225	4	US-09-453-234-66	Sequence 66, Appl
259	472	29.1	217	5	PCT-US94-14106-59	Sequence 59, Appl	332	454	28.0	447	6	5455030-1	Patent No. 5455030
260	472	29.1	225	4	US-09-456-090A-68	Sequence 68, Appl	333	453.5	28.0	213	2	US-08-737-129A-4	Sequence 4, Appl
261	472	29.1	225	4	US-09-453-234-68	Sequence 68, Appl	334	453	27.9	106	1	US-07-634-278-1	Sequence 1, Appl
262	471	29.0	225	4	US-09-456-090A-102	Sequence 102, App	335	453	27.9	106	1	US-07-634-278-16	Sequence 16, Appl
263	471	29.0	225	4	US-09-456-090A-106	Sequence 106, App	336	453	27.9	106	1	US-08-477-728-1	Sequence 1, Appl
264	471	29.0	225	4	US-09-453-234-102	Sequence 102, App	337	453	27.9	106	1	US-08-477-728-16	Sequence 16, Appl
265	471	29.0	225	4	US-09-453-234-106	Sequence 106, App	338	453	27.9	106	1	US-08-474-040-1	Sequence 1, Appl
266	469	28.9	225	4	US-09-456-090A-110	Sequence 110, App	339	453	27.9	106	1	US-08-474-040-16	Sequence 16, Appl
267	469	28.9	225	4	US-09-453-234-110	Sequence 110, App	340	453	27.9	106	1	US-08-487-200-1	Sequence 1, Appl
268	468	28.9	225	4	US-09-456-090A-94	Sequence 94, Appl	341	453	27.9	106	1	US-08-487-200-16	Sequence 16, Appl
269	468	28.9	225	4	US-09-453-234-94	Sequence 94, Appl	342	453	27.9	106	1	US-08-488-113B-163	Sequence 163, App
270	468	28.9	463	4	US-09-472-087-1	Sequence 1, Appl	343	453	27.9	106	1	US-08-477-484B-163	Sequence 163, App
271	468	28.9	463	4	US-09-472-087-63	Sequence 63, Appl	344	453	27.9	106	1	US-08-107-669D-49	Sequence 49, Appl
272	468	28.9	463	4	US-09-472-087-64	Sequence 64, Appl	345	453	27.9	106	1	US-08-472-788A-83	Sequence 83, Appl
273	466	28.7	89	4	US-09-840-459-50	Sequence 50, Appl	346	453	27.9	106	2	US-08-477-531B-49	Sequence 49, Appl
274	466	28.7	89	4	US-09-497-625A-50	Sequence 50, Appl	347	453	27.9	106	2	US-08-646-360-163	Sequence 163, App
275	466	28.7	225	4	US-09-456-090A-70	Sequence 70, Appl	348	453	27.9	106	2	US-08-082-842A-83	Sequence 83, Appl
276	466	28.7	225	4	US-09-453-234-70	Sequence 70, Appl	349	453	27.9	106	3	US-08-839-765-163	Sequence 163, App
277	466	28.7	247	5	PCT-US94-07659-2	Sequence 2, Appl	350	453	27.9	106	3	US-09-136-389-163	Sequence 163, App
278	466	28.7	463	4	US-09-472-087-4	Sequence 4, Appl	351	453	27.9	106	3	US-08-484-537-1	Sequence 1, Appl
279	466	28.7	463	4	US-09-472-087-68	Sequence 68, Appl	352	453	27.9	106	3	US-08-484-537-16	Sequence 16, Appl
280	464.5	28.6	119	1	US-08-053-171-12	Sequence 12, Appl	353	453	27.9	106	3	US-09-610-838-163	Sequence 163, App
281	464	28.6	258	2	US-08-860-174A-13	Sequence 13, Appl	354	453	27.9	106	4	US-09-711-485-163	Sequence 163, App
282	464	28.6	260	4	US-09-742-693-31	Sequence 31, Appl	355	453	27.9	128	3	US-08-444-644-15	Sequence 15, Appl
283	463	28.5	105	4	US-09-091-071-1	Sequence 1, Appl	356	453	27.9	128	3	US-08-232-246A-15	Sequence 15, Appl
284	463	28.5	260	4	US-09-742-693-32	Sequence 32, Appl	357	453	27.9	467	1	US-08-704-744-81	Sequence 81, Appl
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286	462.5	28.5	117	4	US-09-490-070A-24	Sequence 24, Appl	359	452.5	27.9	117	4	US-08-791-391A-2	Sequence 2, Appl
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293	460	28.4	129	2	US-08-116-778B-2	Sequence 2, Appl	366	450.5	27.8	251	1	US-08-398-612A-30	Sequence 30, Appl
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Listing first 65000 summaries

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and is derived by analysis of the total score distribution.

#### SUMMARIES

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5	913	56.3	242	14	US-10-259-087A-20
6	913	56.3	242	17	US-10-689-006-20
7	907	55.9	353	10	US-09-203-958A-4
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36	895.5	55.2	237	10	US-09-880-748-1906
37	895.5	55.2	237	14	US-10-293-418-1906
38	894.5	55.1	237	10	US-09-880-748-2040
39	894.5	55.1	237	14	US-10-293-418-2040
40	894	55.1	240	9	US-09-192-854-2
41	894	55.1	240	9	US-09-968-561A-2
42	894	55.1	240	10	US-09-968-744A-2
43	894	55.1	240	11	US-09-968-561A-2
44	894	55.1	240	17	US-10-744-774-1
45	894	55.1	248	10	US-09-880-748-1421
46	894	55.1	248	14	US-10-293-418-1421
47	889.5	54.8	237	10	US-09-880-748-2043
48	889.5	54.8	237	14	US-10-293-418-2043
49	888.5	54.8	243	10	US-09-880-748-1935
50	888.5	54.8	243	14	US-10-293-418-1935
51	886	54.6	260	15	US-10-435-614-20
52	885.5	54.6	240	9	US-09-976-787-28
53	885.5	54.6	240	9	US-09-965-198-27
54	885.5	54.6	240	17	US-10-482-630-27
55	884.5	54.5	243	10	US-09-880-748-1945
56	884.5	54.5	243	14	US-10-293-418-1945
57	884	54.5	242	14	US-10-259-087A-18
58	884	54.5	242	17	US-10-689-006-18
59	878	54.1	241	15	US-10-062-188-5
60	876.5	54.0	238	9	US-09-976-787-29
61	876.5	54.0	238	9	US-09-865-198-28
62	876.5	54.0	238	10	US-09-798-689-21
63	876.5	54.0	238	17	US-10-482-630-28
64	875.5	54.0	239	10	US-09-880-748-1922
65	875.5	54.0	239	14	US-10-293-418-1922
66	873	53.8	240	15	US-10-062-188-8
67	873	53.8	492	16	US-10-682-845-65
68	873	53.8	492	16	US-10-682-845-75
69	871.5	53.7	247	10	US-09-880-748-1177
70	871.5	53.7	247	14	US-10-293-418-1177
71	871	53.7	248	10	US-09-880-748-1876
72	871	53.7	248	14	US-10-293-418-1876
73	870	53.6	260	15	US-10-435-614-19
74	869	53.6	492	16	US-10-682-845-61
75	868	53.5	492	16	US-10-682-845-73
76	868	53.5	492	16	US-10-682-845-79
77	867	53.5	409	15	US-10-362-591-2
78	867	53.5	492	16	US-10-682-845-59
79	867	53.5	492	16	US-10-682-845-67
80	867	53.5	492	16	US-10-682-845-69
81	867	53.5	492	16	US-10-682-845-87
82	867	53.5	500	14	US-10-168-809-22
83	866.5	53.4	281	14	US-10-112-788-9
84	866.5	53.4	281	15	US-10-435-614-15
85	864.5	53.3	239	14	US-09-880-748-1882
86	864.5	53.3	239	14	US-10-293-418-1882



87	864	53.3	258	14	US-10-247-488-4	Sequence 4, Appli	160	818	50.4	244	10	US-09-880-748-280	Sequence 280, App
88	864	53.3	492	16	US-10-682-845-71	Sequence 71, Appli	161	818	50.4	244	14	US-10-293-418-280	Sequence 280, App
89	862	53.1	492	16	US-10-682-845-77	Sequence 77, Appli	162	815.5	50.3	267	14	US-10-071-485-2	Sequence 2, Appli
90	861	53.1	492	16	US-10-682-845-63	Sequence 63, Appli	163	815.5	50.3	288	15	US-10-406-830-3	Sequence 3, Appli
91	860.5	53.1	241	10	US-09-880-748-1889	Sequence 1889, Ap	164	814.5	50.2	503	15	US-10-239-656-75	Sequence 75, Appli
92	860.5	53.1	241	14	US-10-293-418-1889	Sequence 1889, Ap	165	813.5	50.2	240	14	US-10-127-890-148	Sequence 148, App
93	860	53.0	492	16	US-10-682-845-81	Sequence 81, Appli	166	813.5	50.2	256	15	US-10-239-656-57	Sequence 57, Appli
94	860	53.0	492	16	US-10-682-845-83	Sequence 83, Appli	167	813.5	50.2	499	15	US-10-239-656-73	Sequence 73, Appli
95	860	53.0	492	16	US-10-682-845-85	Sequence 85, Appli	168	813	50.1	291	15	US-10-406-830-6	Sequence 6, Appli
96	859	53.0	492	16	US-10-682-845-85	Sequence 85, Appli	169	812.5	50.1	252	15	US-10-239-656-55	Sequence 55, Appli
97	859	53.0	248	10	US-09-880-748-1004	Sequence 1004, Ap	170	809	49.9	240	10	US-09-880-748-2105	Sequence 2105, Ap
98	859	53.0	495	10	US-10-293-418-1004	Sequence 1004, Ap	171	809	49.9	240	14	US-10-293-418-2105	Sequence 2105, Ap
99	858	52.9	240	16	US-10-779-461-23	Sequence 23, Appli	172	808.5	49.8	307	14	US-10-291-265-332	Sequence 332, App
100	857.5	52.9	247	14	US-09-880-748-1923	Sequence 1923, Ap	173	807.5	49.8	247	15	US-10-336-041A-9	Sequence 9, Appli
101	857.5	52.9	247	14	US-10-293-418-1923	Sequence 28, Appli	174	807.5	49.8	711	14	US-10-071-485-90	Sequence 90, Appli
102	857.5	52.9	556	10	US-08-819-266-28	Sequence 21, Appli	175	806.5	49.7	541	14	US-10-071-485-85	Sequence 85, Appli
103	855.5	52.7	295	15	US-10-406-830-21	Sequence 21, Appli	176	803	49.5	240	10	US-09-880-748-2030	Sequence 2030, Ap
104	855	52.7	256	14	US-10-247-488-2	Sequence 2, Appli	177	803	49.5	240	14	US-10-293-418-2030	Sequence 2030, Ap
105	854.5	52.7	261	17	US-10-689-006-24	Sequence 24, Appli	178	803	49.5	240	14	US-10-293-418-2041	Sequence 2041, Ap
106	853	52.6	252	14	US-10-169-351-49	Sequence 49, Appli	179	803	49.5	240	10	US-09-880-748-2044	Sequence 2044, Ap
107	852	52.5	239	9	US-09-808-037-6	Sequence 6, Appli	180	803	49.5	240	10	US-09-880-748-2044	Sequence 2044, Ap
108	852	52.5	239	14	US-10-162-889-6	Sequence 6, Appli	181	803	49.5	240	10	US-09-880-748-2044	Sequence 2044, Ap
109	852	52.5	239	15	US-10-384-788-6	Sequence 6, Appli	182	803	49.5	240	14	US-09-880-748-2113	Sequence 2113, Ap
110	852	52.5	239	15	US-10-618-856-6	Sequence 6, Appli	183	803	49.5	240	14	US-10-293-418-2113	Sequence 2113, Ap
111	851.5	52.5	241	14	US-09-880-748-1901	Sequence 1901, Ap	184	803	49.5	240	14	US-10-293-418-2041	Sequence 2041, Ap
112	851.5	52.5	251	10	US-10-293-418-1901	Sequence 1320, Ap	185	803	49.5	240	14	US-10-293-418-2044	Sequence 2044, Ap
113	851.5	52.5	251	10	US-09-880-748-1320	Sequence 1320, Ap	186	800	49.3	230	10	US-10-293-418-2113	Sequence 2113, Ap
114	851.5	52.5	251	14	US-10-293-418-1320	Sequence 1887, Ap	187	800	49.3	230	10	US-09-949-039-2	Sequence 2, Appli
115	846.5	52.2	241	10	US-09-880-748-1887	Sequence 1887, Ap	188	800	49.3	230	17	US-10-470-987-42	Sequence 42, Appli
116	846.5	52.2	241	14	US-10-293-418-1887	Sequence 48, Appli	189	799.5	49.3	257	15	US-10-062-188-7	Sequence 7, Appli
117	845.5	52.1	657	17	US-10-723-003-48	Sequence 1883, Ap	190	799	49.3	240	10	US-09-880-748-2007	Sequence 2007, Ap
118	844.5	52.1	243	14	US-09-880-748-1883	Sequence 1883, Ap	191	799	49.3	240	10	US-09-880-748-2025	Sequence 2025, Ap
119	844.5	52.1	243	14	US-10-293-418-1883	Sequence 1883, Ap	192	799	49.3	240	10	US-09-880-748-2025	Sequence 2025, Ap
120	843	52.0	250	15	US-10-423-847-12	Sequence 12, Appli	193	799	49.3	240	10	US-09-880-748-2048	Sequence 2048, Ap
121	842.5	51.9	251	10	US-09-880-748-922	Sequence 922, App	194	799	49.3	240	10	US-09-880-748-2048	Sequence 2048, Ap
122	842.5	51.9	251	14	US-10-293-418-922	Sequence 922, App	195	799	49.3	240	14	US-10-293-418-2108	Sequence 2108, Ap
123	841	51.8	238	10	US-09-880-748-2053	Sequence 2053, Ap	196	799	49.3	240	14	US-10-293-418-2025	Sequence 2025, Ap
124	841	51.8	238	14	US-10-293-418-2053	Sequence 2053, Ap	197	799	49.3	240	14	US-10-293-418-2025	Sequence 2025, Ap
125	840.5	51.8	251	10	US-09-880-748-1310	Sequence 1310, Ap	198	799	49.3	240	14	US-10-293-418-2025	Sequence 2025, Ap
126	840.5	51.8	251	14	US-10-293-418-1310	Sequence 1310, Ap	199	799	49.3	240	14	US-10-293-418-2048	Sequence 2048, Ap
127	840	51.8	266	15	US-10-257-864A-108	Sequence 108, App	200	799	49.3	359	14	US-10-293-418-2108	Sequence 2108, Ap
128	840	51.8	266	15	US-10-399-518-137	Sequence 137, App	201	799	49.3	361	14	US-10-335-394-16	Sequence 16, Appli
129	840	51.8	266	17	US-10-399-585-135	Sequence 135, App	202	798.5	49.2	265	17	US-10-689-006-22	Sequence 22, Appli
130	838	51.7	249	15	US-10-423-847-16	Sequence 16, Appli	203	798	49.2	240	10	US-09-880-748-1905	Sequence 1905, Ap
131	838	51.7	250	15	US-10-423-847-15	Sequence 15, Appli	204	798	49.2	240	14	US-10-293-418-1905	Sequence 1905, Ap
132	837	51.6	438	14	US-10-244-821-88	Sequence 88, Appli	205	797	49.1	240	10	US-09-880-748-2117	Sequence 2117, Ap
133	836.5	51.6	423	14	US/10/013	Sequence 8, Appli	206	797	49.1	240	14	US-10-293-418-2117	Sequence 2117, Ap
134	836.5	51.6	423	14	US/10/150	Sequence 8, Appli	207	796.5	49.1	240	15	US-10-336-041A-12	Sequence 12, Appli
135	836.5	51.6	423	14	US/10/244	Sequence 8, Appli	208	796.5	49.1	240	15	US-10-336-041A-11	Sequence 11, Appli
136	836	51.5	251	15	US-10-239-656-65	Sequence 65, Appli	209	796.5	49.1	241	15	US-10-336-041A-11	Sequence 11, Appli
137	834	51.4	310	13	US-10-052-798-11	Sequence 11, Appli	210	796.5	49.1	241	15	US-10-336-041A-11	Sequence 11, Appli
138	834	51.4	310	14	US-10-288-917-11	Sequence 11, Appli	211	796	49.1	240	14	US-09-880-748-2045	Sequence 2045, Ap
139	834	51.4	310	15	US-10-423-448-11	Sequence 11, Appli	212	796	49.1	240	14	US-10-293-418-2045	Sequence 2045, Ap
140	832	51.3	269	13	US-10-027-770-5	Sequence 5, Appli	213	795.5	49.0	238	15	US-10-336-041A-1	Sequence 1, Appli
141	830	51.2	269	13	US-10-027-770-2	Sequence 2, Appli	214	793	48.9	244	10	US-09-880-748-1991	Sequence 1991, Ap
142	829	51.1	291	15	US-10-406-830-1	Sequence 1, Appli	215	793	48.9	244	14	US-10-293-418-1991	Sequence 1991, Ap
143	828	51.1	291	15	US-10-406-830-2	Sequence 2, Appli	216	792.5	48.9	239	10	US-09-880-748-2034	Sequence 2034, Ap
144	828	51.0	363	14	US-10-291-265-335	Sequence 335, App	217	792.5	48.9	239	14	US-10-293-418-2034	Sequence 2034, Ap
145	825.5	50.9	290	15	US-10-406-830-4	Sequence 4, Appli	218	792	48.8	246	14	US-09-880-748-2075	Sequence 2075, Ap
146	823	50.7	244	10	US-09-880-748-82	Sequence 82, Appli	219	792	48.8	246	14	US-10-293-418-2075	Sequence 2075, Ap
147	823	50.7	244	14	US-10-293-418-82	Sequence 82, Appli	220	792	48.7	312	14	US-10-291-265-334	Sequence 334, App
148	822.5	50.7	505	15	US-10-239-656-79	Sequence 79, Appli	221	789	48.6	261	16	US-10-642-120-6	Sequence 6, Appli
149	821.5	50.6	258	15	US-10-239-656-71	Sequence 71, Appli	222	789	48.6	261	16	US-10-642-120-6	Sequence 6, Appli
150	821	50.6	241	8	US-08-779-457-50	Sequence 50, Appli	223	789	48.6	261	16	US-10-642-120-6	Sequence 6, Appli
151	820.5	50.6	241	10	US-09-880-748-1932	Sequence 1932, Ap	224	789	48.6	261	16	US-10-642-122-6	Sequence 6, Appli
152	820.5	50.6	241	10	US-09-880-748-2054	Sequence 2054, Ap	225	789	48.6	261	16	US-10-642-124-6	Sequence 6, Appli
153	820.5	50.6	241	14	US-10-293-418-1932	Sequence 1932, Ap	226	789	48.6	261	16	US-10-621-269-6	Sequence 6, Appli
154	820.5	50.6	241	14	US-10-293-418-2054	Sequence 2054, Ap	227	789	48.6	261	17	US-10-620-850-6	Sequence 6, Appli
155	820	50.6	244	10	US-09-880-748-261	Sequence 261, App	228	789	48.6	261	17	US-10-642-118-6	Sequence 6, Appli
156	820	50.6	244	14	US-10-293-418-261	Sequence 261, App	229	789	48.6	261	17	US-10-642-117-6	Sequence 6, Appli
157	819.5	50.5	239	14	US-10-169-351-50	Sequence 50, Appli	230	789	48.6	261	17	US-10-642-119-6	Sequence 6, Appli
158	819	50.5	234	10	US-09-880-748-164	Sequence 164, App	231	789	48.6	272	16	US-10-642-122-6	Sequence 6, Appli
159	819	50.5	244	14	US-10-293-418-164	Sequence 164, App	232	789	48.6	272	16	US-10-803-653-183	Sequence 183, App



233	788	48.6	296	10	US-09-969-748C-12	Sequence 12, Appl	306	766.5	47.3	408	15	US-10-353-721-15	Sequence 15, Appl
234	788	48.6	296	10	US-09-949-039-75	Sequence 75, Appl	307	766.5	47.3	409	15	US-10-353-721-14	Sequence 14, Appl
235	787	48.5	262	10	US-09-880-748-2081	Sequence 2081, Ap	308	766	47.2	238	16	US-10-779-461-1	Sequence 1, Appl
236	787	48.5	262	14	US-10-293-418-2081	Sequence 2081, Ap	309	766	47.2	240	14	US-10-071-485-91	Sequence 91, Appl
237	784	48.3	240	14	US-09-880-748-1898	Sequence 1898, Ap	310	765.5	47.2	241	10	US-09-880-748-2055	Sequence 2055, Ap
238	784	48.3	240	14	US-10-293-418-1898	Sequence 1898, Ap	311	765.5	47.2	241	14	US-10-293-418-2055	Sequence 2055, Ap
239	784	48.3	277	15	US-10-032-0378-203	Sequence 203, App	312	765.5	47.2	249	10	US-09-880-748-1105	Sequence 1105, Ap
240	784	48.3	277	15	US-10-029-9888-203	Sequence 203, App	313	765.5	47.2	249	14	US-10-293-418-1105	Sequence 1105, Ap
241	784	48.3	277	15	US-10-032-423A-203	Sequence 203, App	314	765.5	47.2	259	15	US-10-239-656-53	Sequence 53, Appl
242	784	48.3	277	15	US-10-029-9268-203	Sequence 203, App	315	765	47.2	242	10	US-09-880-748-1884	Sequence 1884, Ap
243	784	48.3	312	13	US-10-052-798-10	Sequence 10, Appl	316	765	47.2	242	14	US-10-293-418-1884	Sequence 1884, Ap
244	784	48.3	312	14	US-10-288-917-10	Sequence 10, Appl	317	765	47.2	250	14	US-10-120-414-72	Sequence 72, Appl
245	784	48.3	312	15	US-10-423-448-10	Sequence 10, Appl	318	764.5	47.1	249	10	US-09-880-748-892	Sequence 892, App
246	782.5	48.2	255	15	US-10-369-656-69	Sequence 69, Appl	319	764.5	47.1	249	14	US-10-293-418-892	Sequence 892, App
247	782.5	48.2	288	15	US-10-363-349-7	Sequence 7, Appl	320	764	47.1	254	10	US-09-880-748-981	Sequence 981, App
248	782	48.2	252	10	US-09-880-748-956	Sequence 956, App	321	764	47.1	254	14	US-10-293-418-981	Sequence 981, App
249	781.5	48.2	252	14	US-10-293-418-956	Sequence 956, App	322	763.5	47.1	255	10	US-09-880-748-1819	Sequence 1819, Ap
250	781.5	48.2	384	14	US-10-291-265-804	Sequence 804, App	323	763.5	47.1	255	14	US-10-293-418-1819	Sequence 1819, Ap
251	781.5	48.2	384	14	US-10-291-265-805	Sequence 805, App	324	761.5	46.9	245	10	US-09-880-748-1902	Sequence 1902, Ap
252	781.5	48.2	384	14	US-10-291-265-806	Sequence 806, App	325	761.5	46.9	245	14	US-10-293-418-1902	Sequence 1902, Ap
253	781.5	48.2	384	14	US-10-291-265-807	Sequence 807, App	326	761.5	46.9	245	17	US-10-800-197-11	Sequence 11, Appl
254	780	48.1	256	10	US-09-880-748-839	Sequence 839, App	327	761.5	46.9	251	10	US-09-880-748-1114	Sequence 1114, Ap
255	780	48.1	256	14	US-10-293-418-839	Sequence 839, App	328	761.5	46.9	251	14	US-10-293-418-1114	Sequence 1114, Ap
256	779.5	48.1	286	15	US-10-406-830-8	Sequence 8, Appl	329	761	46.9	254	10	US-09-880-748-1701	Sequence 1701, Ap
257	779.5	48.1	665	17	US-10-723-003-62	Sequence 62, Appl	330	761	46.9	254	14	US-10-293-418-1701	Sequence 1701, Ap
258	778.5	48.0	237	10	US-09-880-748-2006	Sequence 2006, Ap	331	760.5	46.9	249	10	US-09-880-748-1102	Sequence 1102, Ap
259	778.5	48.0	237	14	US-10-293-418-2006	Sequence 2006, Ap	332	760.5	46.9	249	14	US-10-293-418-1102	Sequence 1102, Ap
260	778.5	48.0	245	14	US-10-293-418-3241	Sequence 3241, Ap	333	760.5	46.9	482	14	US-10-345-618-16	Sequence 16, Appl
261	778	48.0	252	10	US-09-880-748-988	Sequence 988, App	334	760	46.9	236	10	US-09-880-748-2010	Sequence 2010, Ap
262	778	48.0	252	14	US-10-293-418-988	Sequence 988, App	335	760	46.9	236	14	US-10-293-418-2010	Sequence 2010, Ap
263	778	48.0	277	15	US-10-032-0378-25	Sequence 25, Appl	336	760	46.9	240	10	US-09-880-748-1918	Sequence 1918, Ap
264	778	48.0	277	15	US-10-029-9888-25	Sequence 25, Appl	337	760	46.9	240	14	US-10-293-418-1918	Sequence 1918, Ap
265	778	48.0	277	15	US-10-032-423A-25	Sequence 25, Appl	338	759.5	46.8	245	10	US-10-293-418-1918	Sequence 1918, Ap
266	778	48.0	277	15	US-10-029-9268-25	Sequence 25, Appl	339	759.5	46.8	245	14	US-09-880-748-1926	Sequence 1926, Ap
267	775.5	47.8	237	10	US-09-880-748-2036	Sequence 2036, Ap	340	759.5	46.8	253	14	US-10-293-418-1926	Sequence 1926, Ap
268	775.5	47.8	237	14	US-10-293-418-2036	Sequence 2036, Ap	341	759.5	46.8	309	13	US-10-120-414-76	Sequence 76, Appl
269	775.5	47.8	251	10	US-09-880-748-1309	Sequence 1309, Ap	342	759.5	46.8	309	14	US-10-052-798-9	Sequence 9, Appl
270	775.5	47.8	251	14	US-10-293-418-1309	Sequence 1309, Ap	343	759.5	46.8	309	15	US-10-423-448-9	Sequence 9, Appl
271	775	47.8	248	9	US-09-920-171-22	Sequence 22, Appl	344	759.5	46.8	661	17	US-10-723-003-28	Sequence 28, Appl
272	775	47.8	248	14	US-10-113-996-22	Sequence 22, Appl	345	759	46.8	246	14	US-10-120-414-80	Sequence 80, Appl
273	774	47.7	252	10	US-09-880-748-1634	Sequence 1634, Ap	346	759	46.8	248	10	US-09-880-748-1890	Sequence 1890, Ap
274	774	47.7	252	14	US-10-293-418-1634	Sequence 1634, Ap	347	759	46.8	248	14	US-10-293-418-1890	Sequence 1890, Ap
275	774	47.7	277	17	US-10-610-8438-1	Sequence 1, Appl	348	758.5	46.8	247	10	US-09-880-748-1330	Sequence 1330, Ap
276	773.5	47.7	253	10	US-09-880-748-936	Sequence 936, App	349	758.5	46.8	247	14	US-10-293-418-1330	Sequence 1330, Ap
277	773.5	47.7	253	14	US-10-293-418-936	Sequence 936, App	350	758.5	46.8	251	17	US-10-800-197-15	Sequence 15, Appl
278	773	47.7	238	10	US-09-880-748-2024	Sequence 2024, Ap	351	758	46.7	254	10	US-09-880-748-1735	Sequence 1735, Ap
279	773	47.7	238	14	US-10-293-418-2024	Sequence 2024, Ap	352	758	46.7	254	14	US-10-293-418-1735	Sequence 1735, Ap
280	772.5	47.6	237	10	US-09-880-748-2112	Sequence 2112, Ap	353	757.5	46.7	249	10	US-09-880-748-397	Sequence 397, App
281	772.5	47.6	237	14	US-10-293-418-2112	Sequence 2112, Ap	354	757.5	46.7	249	10	US-09-880-748-1956	Sequence 1956, Ap
282	772.5	47.6	241	10	US-09-880-748-1888	Sequence 1888, Ap	355	757.5	46.7	249	14	US-10-293-418-397	Sequence 397, App
283	772.5	47.6	241	14	US-10-293-418-1888	Sequence 1888, Ap	356	757.5	46.7	249	14	US-10-293-418-1956	Sequence 1956, Ap
284	772.5	47.6	243	10	US-09-880-748-2102	Sequence 2102, Ap	357	757	46.7	252	10	US-09-880-748-1690	Sequence 1690, Ap
285	772.5	47.6	243	14	US-10-293-418-2102	Sequence 2102, Ap	358	757	46.7	252	14	US-10-293-418-1690	Sequence 1690, Ap
286	771	47.5	248	9	US-09-920-171-23	Sequence 23, Appl	359	757	46.7	254	10	US-09-880-748-1428	Sequence 1428, Ap
287	771	47.5	248	14	US-10-113-996-23	Sequence 23, Appl	360	757	46.7	254	14	US-10-293-418-1428	Sequence 1428, Ap
288	771	47.5	254	10	US-09-880-748-983	Sequence 983, App	361	757	46.7	254	10	US-10-293-418-1428	Sequence 1428, Ap
289	771	47.5	254	14	US-10-293-418-983	Sequence 983, App	362	757	46.7	254	14	US-10-293-418-1759	Sequence 1759, Ap
290	771	47.5	256	10	US-09-880-748-1183	Sequence 1183, Ap	363	757	46.7	367	14	US-10-291-265-899	Sequence 899, App
291	771	47.5	256	14	US-10-293-418-1183	Sequence 1183, Ap	364	756.5	46.6	237	10	US-09-880-748-2039	Sequence 2039, Ap
292	770.5	47.5	240	13	US-10-384-060-27	Sequence 27, Appl	365	756.5	46.6	237	14	US-10-293-418-2039	Sequence 2039, Ap
293	770.5	47.5	243	15	US-10-406-830-19	Sequence 19, Appl	366	756	46.6	250	10	US-09-880-748-883	Sequence 883, App
294	770.5	47.5	249	10	US-09-880-748-1115	Sequence 1115, Ap	367	756	46.6	250	14	US-10-293-418-883	Sequence 883, App
295	770.5	47.5	249	14	US-10-293-418-1115	Sequence 1115, Ap	368	755.5	46.6	243	10	US-09-880-748-2063	Sequence 2063, Ap
296	770.5	47.5	264	14	US-10-114-7168-46	Sequence 46, Appl	369	755.5	46.6	243	14	US-10-293-418-2063	Sequence 2063, Ap
297	770	47.5	252	10	US-09-880-748-1627	Sequence 1627, Ap	370	755.5	46.6	251	10	US-09-880-748-955	Sequence 955, App
298	770	47.5	252	14	US-10-293-418-1627	Sequence 1627, Ap	371	755.5	46.6	251	14	US-10-293-418-955	Sequence 955, App
299	769	47.4	256	10	US-09-880-748-1318	Sequence 1318, Ap	372	755.5	46.6	253	10	US-09-880-748-989	Sequence 989, App
300	769	47.4	256	14	US-10-293-418-1318	Sequence 1318, Ap	373	755.5	46.6	253	14	US-10-293-418-989	Sequence 989, App
301	768.5	47.4	243	16	US-10-779-461-46	Sequence 46, Appl	374	755	46.5	250	10	US-09-880-748-1420	Sequence 1420, Ap
302	767.5	47.3	245	16	US-10-779-461-24	Sequence 24, Appl	375	755	46.5	250	14	US-10-293-418-1420	Sequence 1420, Ap
303	767.5	47.3	268	15	US-10-353-721-2	Sequence 2, Appl	376	755	46.5	252	10	US-09-880-748-1519	Sequence 1519, Ap
304	767	47.3	246	16	US-10-779-461-47	Sequence 47, Appl	377	755	46.5	252	14	US-10-293-418-1519	Sequence 1519, Ap
305	766.5	47.3	243	14	US-10-322-673-53	Sequence 53, Appl	378	754.5	46.5	249	10	US-09-880-748-911	Sequence 911, App

379	754.5	46.5	249	10	US-09-880-748-1119	Sequence 1119, Ap	452	748	46.1	250	14	US-10-293-418-1461	Sequence 1461, Ap
380	754.5	46.5	249	14	US-10-293-418-911	Sequence 911, App	453	748	46.1	250	16	US-10-779-461-8	Sequence 8, Appl1
381	754.5	46.5	249	14	US-10-293-418-1119	Sequence 1119, Ap	454	747.5	46.1	251	10	US-09-880-748-1332	Sequence 1332, Ap
382	754.5	46.5	253	10	US-09-880-748-1003	Sequence 1003, Ap	455	747.5	46.1	251	14	US-10-293-418-1332	Sequence 1332, Ap
383	754.5	46.5	253	14	US-10-293-418-1003	Sequence 1003, Ap	456	747	46.1	242	10	US-09-880-748-1949	Sequence 1949, Ap
384	754	46.5	248	10	US-09-880-748-1778	Sequence 1778, Ap	457	747	46.1	242	14	US-10-293-418-1949	Sequence 1949, Ap
385	754	46.5	248	14	US-10-293-418-1778	Sequence 1778, Ap	458	747	46.1	248	10	US-09-880-748-1653	Sequence 1653, Ap
386	754	46.5	250	14	US-09-880-748-1179	Sequence 1179, Ap	459	747	46.1	248	14	US-10-293-418-1653	Sequence 1653, Ap
387	754	46.5	250	14	US-10-293-418-1179	Sequence 1179, Ap	460	746.5	46.0	253	10	US-09-880-748-1553	Sequence 1553, Ap
388	753.5	46.5	239	10	US-09-880-748-2023	Sequence 2023, Ap	461	746.5	46.0	253	14	US-09-880-748-1000	Sequence 1000, Ap
389	753.5	46.5	239	14	US-10-293-418-2023	Sequence 2023, Ap	462	746.5	46.0	253	14	US-10-293-418-1000	Sequence 1000, Ap
390	753.5	46.5	249	10	US-09-880-748-1108	Sequence 1108, Ap	463	746	46.0	280	17	US-10-611-5880-1	Sequence 1, Appl1
391	753.5	46.5	249	10	US-09-880-748-1117	Sequence 1117, Ap	464	746	46.0	242	10	US-09-880-748-1580	Sequence 1580, Ap
392	753.5	46.5	249	14	US-10-293-418-1108	Sequence 1108, Ap	465	745.5	46.0	242	14	US-10-293-418-1580	Sequence 1580, Ap
393	753.5	46.5	249	14	US-10-293-418-1117	Sequence 1117, Ap	466	745.5	46.0	240	15	US-10-062-188-9	Sequence 9, Appl1
394	753.5	46.5	255	10	US-09-880-748-1608	Sequence 1608, Ap	467	745.5	46.0	245	16	US-10-779-461-59	Sequence 59, Appl
395	753.5	46.5	255	14	US-10-293-418-1608	Sequence 1608, Ap	468	745.5	46.0	251	10	US-09-880-748-1921	Sequence 1921, Ap
396	753	46.4	246	16	US-10-779-461-45	Sequence 45, Appl	469	745.5	46.0	251	14	US-10-293-418-1921	Sequence 1921, Ap
397	753	46.4	250	10	US-09-880-748-932	Sequence 932, App	470	745.5	46.0	253	10	US-09-880-748-1814	Sequence 1814, Ap
398	753	46.4	252	14	US-10-293-418-932	Sequence 932, App	471	745.5	46.0	253	14	US-10-293-418-1814	Sequence 1814, Ap
399	753	46.4	252	10	US-09-880-748-1311	Sequence 1311, Ap	472	745	45.9	248	10	US-09-880-748-1008	Sequence 1008, Ap
400	753	46.4	252	14	US-10-293-418-1311	Sequence 1311, Ap	473	745	45.9	248	14	US-10-293-418-1008	Sequence 1008, Ap
401	752.5	46.4	247	14	US-10-120-414-81	Sequence 81, Appl	474	745	45.9	254	10	US-09-880-748-971	Sequence 971, App
402	752.5	46.4	249	10	US-09-880-748-974	Sequence 974, App	475	744.5	45.9	254	14	US-10-293-418-971	Sequence 971, App
403	752.5	46.4	249	10	US-09-880-748-1113	Sequence 1113, Ap	476	744.5	45.9	243	14	US-10-322-673-55	Sequence 55, Appl
404	752.5	46.4	249	10	US-09-880-748-1118	Sequence 1118, Ap	477	744.5	45.9	247	10	US-09-880-748-1928	Sequence 1928, Ap
405	752.5	46.4	249	14	US-10-293-418-974	Sequence 974, App	478	744.5	45.9	247	14	US-10-293-418-1928	Sequence 1928, Ap
406	752.5	46.4	249	14	US-10-293-418-1113	Sequence 1113, Ap	479	744.5	45.9	251	10	US-09-880-748-925	Sequence 925, App
407	752.5	46.4	249	14	US-10-293-418-1113	Sequence 1113, Ap	480	744.5	45.9	251	14	US-10-293-418-925	Sequence 925, App
408	752.5	46.4	251	14	US-10-293-418-1118	Sequence 1118, Ap	481	744.5	45.9	253	10	US-09-880-748-1091	Sequence 1091, Ap
409	751.5	46.3	249	10	US-09-880-748-3245	Sequence 3245, Ap	482	744	45.9	253	14	US-10-293-418-1091	Sequence 1091, Ap
410	751.5	46.3	249	14	US-09-880-748-512	Sequence 512, App	483	744	45.9	254	10	US-09-880-748-881	Sequence 881, App
411	751.5	46.3	249	10	US-10-293-418-512	Sequence 512, App	484	744	45.9	254	14	US-09-880-748-881	Sequence 881, App
412	751.5	46.3	253	10	US-09-880-748-1449	Sequence 1449, Ap	485	743.5	45.8	249	10	US-10-293-418-1110	Sequence 1110, Ap
413	751	46.3	246	10	US-10-293-418-1449	Sequence 1449, Ap	486	743.5	45.8	249	14	US-09-880-748-1110	Sequence 1110, Ap
414	751	46.3	246	14	US-09-880-748-1314	Sequence 1314, Ap	487	743.5	45.8	251	10	US-09-880-748-908	Sequence 908, App
415	750.5	46.3	249	10	US-10-293-418-1314	Sequence 1314, Ap	488	743.5	45.8	251	14	US-10-293-418-908	Sequence 908, App
416	750.5	46.3	249	10	US-09-880-748-1111	Sequence 1111, Ap	489	743.5	45.8	253	10	US-09-880-748-854	Sequence 854, App
417	750.5	46.3	249	14	US-09-880-748-1111	Sequence 1111, Ap	490	743.5	45.8	253	14	US-10-293-418-854	Sequence 854, App
418	750.5	46.3	249	14	US-10-293-418-1111	Sequence 1111, Ap	491	743	45.8	248	10	US-09-880-748-1782	Sequence 1782, Ap
419	750.5	46.3	251	10	US-10-293-418-1120	Sequence 1120, Ap	492	743	45.8	248	14	US-10-293-418-1782	Sequence 1782, Ap
420	750.5	46.3	251	14	US-09-880-748-1317	Sequence 1317, Ap	493	743	45.8	260	10	US-09-880-748-1458	Sequence 1458, Ap
421	750.5	46.3	251	10	US-10-293-418-1317	Sequence 1317, Ap	494	743	45.8	260	14	US-10-293-418-1458	Sequence 1458, Ap
422	750	46.2	278	17	US-10-610-843B-2	Sequence 2, Appl1	495	743	45.8	267	9	US-09-766-543-10	Sequence 10, Appl
423	750	46.2	248	10	US-09-880-748-1446	Sequence 1446, Ap	496	742.5	45.8	622	15	US-10-378-832A-2	Sequence 2, Appl1
424	750	46.2	248	14	US-10-293-418-1446	Sequence 1446, Ap	497	742.5	45.8	622	10	US-09-880-748-2022	Sequence 2022, Ap
425	750	46.2	250	10	US-09-880-748-1341	Sequence 1341, Ap	498	742.5	45.8	239	10	US-09-880-748-2022	Sequence 2022, Ap
426	750	46.2	250	10	US-09-880-748-1613	Sequence 1613, Ap	499	742.5	45.8	239	14	US-10-293-418-2022	Sequence 2022, Ap
427	750	46.2	250	14	US-10-293-418-1613	Sequence 1613, Ap	500	742.5	45.8	242	14	US-10-336-210-5	Sequence 5, Appl1
428	750	46.2	250	14	US-10-293-418-1613	Sequence 1613, Ap	501	742.5	45.8	243	10	US-09-880-748-1943	Sequence 1943, Ap
429	750	46.2	258	10	US-09-880-748-1841	Sequence 1841, Ap	502	742.5	45.8	243	14	US-10-293-418-1943	Sequence 1943, Ap
430	749.5	46.2	258	14	US-10-293-418-1841	Sequence 1841, Ap	503	742.5	45.8	249	10	US-09-880-748-926	Sequence 926, App
431	749.5	46.2	247	10	US-09-880-748-1934	Sequence 1934, Ap	504	742.5	45.8	249	14	US-10-293-418-926	Sequence 926, App
432	749.5	46.2	247	14	US-10-322-673-48	Sequence 48, Appl	505	742.5	45.8	253	10	US-09-880-748-880	Sequence 880, App
433	749.5	46.2	247	14	US-10-293-418-1934	Sequence 1934, Ap	506	742.5	45.8	253	10	US-09-880-748-1089	Sequence 1089, Ap
434	749.5	46.2	251	10	US-09-880-748-1594	Sequence 1594, Ap	507	742.5	45.8	253	10	US-09-880-748-1094	Sequence 1094, Ap
435	749.5	46.2	251	14	US-10-293-418-1594	Sequence 1594, Ap	508	742.5	45.8	253	10	US-09-880-748-1097	Sequence 1097, Ap
436	749.5	46.2	253	10	US-09-880-748-1007	Sequence 1007, Ap	509	742.5	45.8	253	10	US-09-880-748-1098	Sequence 1098, Ap
437	749.5	46.2	253	10	US-09-880-748-1200	Sequence 1200, Ap	510	742.5	45.8	253	10	US-09-880-748-1432	Sequence 1432, Ap
438	749.5	46.2	253	14	US-10-293-418-1007	Sequence 1007, Ap	511	742.5	45.8	253	14	US-09-880-748-1432	Sequence 1432, Ap
439	749	46.2	240	10	US-10-293-418-1200	Sequence 1200, Ap	512	742.5	45.8	253	14	US-10-293-418-880	Sequence 880, App
440	749	46.2	240	10	US-09-880-748-1930	Sequence 1930, Ap	513	742.5	45.8	253	14	US-10-293-418-1089	Sequence 1089, Ap
441	749	46.2	240	14	US-09-880-748-2047	Sequence 2047, Ap	514	742.5	45.8	253	14	US-10-293-418-1097	Sequence 1097, Ap
442	749	46.2	240	14	US-10-293-418-1930	Sequence 1930, Ap	515	742.5	45.8	253	14	US-10-293-418-1098	Sequence 1098, Ap
443	749	46.2	240	14	US-10-293-418-2047	Sequence 2047, Ap	516	742.5	45.8	253	14	US-10-293-418-1432	Sequence 1432, Ap
444	749	46.2	252	10	US-09-880-748-1731	Sequence 1731, Ap	517	742.5	45.8	268	14	US-10-270-071-32	Sequence 32, Appl
445	748.5	46.1	249	14	US-10-293-418-1731	Sequence 1731, Ap	518	742.5	45.8	268	14	US-10-328-190-4	Sequence 4, Appl1
446	748.5	46.1	249	10	US-09-880-748-896	Sequence 896, App	519	742	45.7	252	10	US-09-880-748-1394	Sequence 1394, Ap
447	748.5	46.1	249	14	US-10-293-418-896	Sequence 896, App	520	742	45.7	252	14	US-10-293-418-1394	Sequence 1394, Ap
448	748.5	46.1	249	16	US-10-803-622-190	Sequence 190, App	521	742	45.7	254	10	US-09-880-748-977	Sequence 977, App
449	748.5	46.1	249	16	US-10-803-653-190	Sequence 190, App	522	742	45.7	254	10	US-09-880-748-1625	Sequence 1625, Ap
450	748.5	46.1	251	10	US-09-880-748-1605	Sequence 1605, App	523	742	45.7	254	14	US-10-293-418-977	Sequence 977, App
451	748	46.1	251	14	US-10-293-418-1605	Sequence 1605, Ap	524	742	45.7	254	14	US-10-293-418-1625	Sequence 1625, Ap
			250	10	US-09-880-748-1461	Sequence 1461, Ap	525	742	45.7	256	10	US-09-880-748-1604	Sequence 1604, Ap